Q1 Catalogue 2009

NEC

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NEC SYSTEM AREA MANAGER

A powerful asset management solution

The Power of a Single Management Interface to manage the Complexity of the System Area Network

A simple, open and unified administration solution for all enterprise infrastructures thus optimizing their overall IT budget.

A software management tool that enable businesses to take greater control over their IT assets, reducing the total cost of ownership and improving levels of service.

CARACTÉRISTIQUES PRINCIPALES :

- Asset Discovery and Monitoring
- Remote Keyboard Video Mouse Control
- Remote Out of Band Management (IPMI/AMT)
- Power Management
- Asset change tracking, alerting and reporting
- RAID Storage Monitoring and Configuration
- Utilization & Performance Monitoring
- Configurable Alerting Email/SMS/Pager/SNMP
- Enterprise Framework Integration (SNMP)
- Software and patch deployment

CLIENT LICENCES (DESKTOPS / NOTEBOOKS)	
NEC System Area Manager licence for 1 client (Desktop/Notebooks)	SAM-0001-0D-00
NEC System Area Manager licence for 5 clients (Desktop/Notebooks)	SAM-0005-0D-00
NEC System Area Manager licence for 10 clients (Desktop/Notebooks)	SAM-0010-0D-00
NEC System Area Manager licence for 20 clients (Desktop/Notebooks)	SAM-0020-0D-00
NEC System Area Manager licence for 50 clients (Desktop/Notebooks)	SAM-0050-0D-00
NEC System Area Manager licence for 100 clients (Desktop/Notebooks)	SAM-0100-0D-00

SERVER LICENCES (Entry servers and 120Eh-2)*	
NEC System Area Manager licence for 1 server	SAM-0001-0S-00
NEC System Area Manager licence for 5 servers	SAM-0005-0S-00
NEC System Area Manager licence for 10 servers	SAM-0010-0S-00
NEC System Area Manager licence for 20 servers	SAM-0020-0S-00

*Available on Express5800 servers

CLIENT SOLUTIONS & SERVICES

POWERMATE VL AT A GLANCE

For uncompromising reliability and performance at all time low-costs, **V**alue **L**ine desktops are unbeatable.

	VL280 Micro-Tower & Small Desktop	VL370 SFF, Micro-Tower & Small Desktop
PROCESSOR		
Type	Intel® Celeron® 4XX	Sempron™ 3XXX+ / LE-XXXX
	Intel® Pentium™ Dual Core E2XXX	Athlon64® 4XXX+ / LE-XXXX
	Intel® Core™ 2 Duo E4XXX & E7XXX	Athlon64® X2 4XXX+ / 5XXX+ / BE-XXXX
	Intel® Core™ 2 Duo E8XXX	Phenom X3 8XXX
	Intel® Core™ 2 Quad Core Q6XXX	Phenom X4 9XXX
Socket / slot type	Socket LGA 775	Socket AM2
L2 cache std	98145,452	98145,452
ARCHITECTURE & MOTHERBOARD		
Format	Micro BTX	Pico BTX (for SFF) & Micro BTX (for Small DT & MT)
Chipset	Intel®G31	AMD® RS690G
Processor bus speed	Front Side Bus 800/1066/1333 MHz	Hyper Transport Processor Bus 1600/2000MHz
Integrated Hardware monitoring ASIC	Yes	Yes
BIOS		
DMI 2.3 compliant	Yes	Yes
Upgradeable in flash	Yes	Yes
MEMORY		
Memory std / max / type	512MB / 4GB* / DDR2-RAM 667 MHz	512MB / 4GB / DDR2 667/800 Mhz for SFF 512MB / 8GB / DDR2 667/800Mhz for small DT & MT
Memory slots	2 DIMM (Dual Channel Support) * 3,3GB available with Operating system at 32bits	2 DIMM (Dual Channel Support) for SFF 4 DIMM (Dual Channel Support) For Small DT & MT
STORAGE		
Hard disk drive	80GB / 160GB / 250GB SATA	80GB / 160GB / 250GB SATA
Hard disk drive controller	SATA Interface (2 connectors)	SATA Interface (2 connectors)
Floppy disk drive	Optional	Optional
DVD ROM drive	Optional	Optional
Combo DVD/CD-RW	Optional	Optional
DVD+R9	Optional	Optional
VIDEO		
Video controller	Integrated Intel® Graphics Media Accelerator 3100®	ATI® Radeon X1250 Integrated
Video memory	Up to 256MB DDR-RAM from main physical memory (If 512MB of main memory or higher) / Dynamic allocation according to video resolution	Up to 256MB DDR-RAM from main physical memory (If 512MB of main memory or higher) / Dynamic allocation according to video resolution
Optional Boards (Low Profile with Slim Chassis)	PCIe 16x Nvidia GeForce 8400 256MB-DDR2 ATX VGA/DVI PCIe 16x ATI Radeon HD2600Pro 512MB-DDR3 DVI-I/TVO DVI-D Adapter	PCIe 16x Nvidia GeForce 8400 256MB-DDR2 ATX VGA/DVI PCIe 16x ATI Radeon HD2600Pro 512MB-DDR3 DVI-I/TVO DVI-D Adapter
SOUND		
Audio controller	Integrated Azalia Audio Controller	Integrated Azalia Audio Controller
NETWORK		
Network interface controller (Low Profile with Slim Chassis)	Integrated	Integrated
Network capabilities	10/100/1000 Wake On LAN	10/100/1000 Wake On LAN
SECURITY		
Recovery CD	No	No
HDD recovery system preloaded	Yes	Yes
2 level passwords	Administrator & User	Administrator & User
Hardware features	Anti-theft ring and Kensington lock hole Keyboard & mouse antitheft Intrusion switch Integrated Hardware monitoring ASIC	Anti-theft ring and Kensington lock hole Keyboard & mouse antitheft Intrusion switch Integrated Hardware monitoring ASIC

POWERMATE VL AT A GLANCE

For uncompromising reliability and performance at all time low-costs, **V**alue **L**ine desktops are unbeatable.

	VL280 Micro-Tower & Small Desktop	VL370 SFF, Micro-Tower & Small Desktop
I/O PORTS		
USB ports (USB 2.0 on VL4)	8 : 2 at front, 4 at rear & 2 internal	8 : 2 at front, 4 at rear & 2 internal
Serial ports	1 (+1 optional)	1 (+1 optional)
Parallel port	1 (ECP/EPP)	1 (ECP/EPP)
MBuse / keyboard port	1 / 1	1 / 1
SVGA video port	1	1
Network Port	1	1
DVI-D port	No	1
Audio In/Out ports	1 line in, 1 line out, 1 microphone	1 line in, 1 line out, 1 microphone
BAYS		
5.25" bays	Small DT : 1 external Micro-Tower : 2 external	SFF : 1 slim external Small DT : 1 external Micro-Tower : 2 external
3.5" bays	Small Desktop : 3 1 external 1 internal (used by HDD) Micro-Tower : 4 2 external 2 internal (1 used by HDD)	SFF : 2 1 slim external 1 internal (used by HDD) Small Desktop : 3 1 external 2 internal (1 used by HDD) Micro-Tower : 4 2 external 2 internal (1 used by HDD)
SLOTS		
Bus slots total	MT : 1 PCI 16x + 1 PCI 1x + 2 PCI Small Desktop : 1 PCI 16x + 1 PCI 1x + 2 PCI LP Small Desktop + Riser : 1PCI 16x + 2 PCI	Micro-Tower : 1 PCI 16x + 1 PCIe 1x + 2 PCI Small Desktop : 1 PCI 16x + 1 PCIe 1x + 2 PCI LP Small Desktop + Riser : 1PCI 16x + 2 PCI SFF : 1 PCI
POWER SUPPLY		
Power supply specs	Desktop : 110/220 VAC - 50 / 60Hz - 250W Micro-Tower : 110/220 VAC - 50 / 60Hz - 250W	SFF : 110/220 VAC - 50/60Hz -250W Desktop : 110/220 VAC - 50 / 60Hz - 250W Micro-Tower : 110/220 VAC - 50 / 60Hz - 250W
Power supply type	Soft On/Off - Wake on LAN supported	Soft On/Off - Wake on LAN supported
PHYSICAL SPECIFICATIONS		
Chassis type	SFF & Micro-Tower & Desktop	SFF & Micro-Tower & Desktop
Size (WxDxH)	Micro-Tower : 170 x 424 x 391 mm Desktop : 371 x 386 x 102 mm	SFF : 92 x 307 x 347 mm Micro-Tower : 170 x 424 x 391 mm Desktop : 371 x 386 x 102 mm
Weight	Desktop : 5.4Kg Micro-Tower: 7.2Kg	SFF : 5,1Kg Desktop : 5.4Kg Micro-Tower: 7.2Kg
OS AND SOFTWARE		
Operating system	Microsoft® Windows Vista Home Basic / Business	Microsoft® Windows Vista Home Basic / Business
Office softwares	Microsoft® Office Basic / SBE / Pro 2007 optional	Microsoft® Office Basic / SBE / Pro 2007 optional
Anti-virus	Norton Internet Security 2007 (90 Days)	Norton Internet Security 2007 (90 Days)
Vendor certification	WLP 2.0 compliant, Mandriva Linux tested	WLP 2.0 compliant, Mandriva Linux tested
WARRANTY		
Standard warranty	3 years on site (Optional 1 year on site)	3 years on site (Optional 1 year on site)
NEC ULTRACARE SERVICES		
Warranty Extensions	3Y On-site D+1 Repair Time Commitment	3Y On-site D+1 Repair Time Commitment
Value Added Services	Installation services and Software support	Installation services and Software support
REGULATORY & SAFETY		
Regulatory compliance	CE Mark, EN 55022 B, EN 50082-1, EN 60950	CE Mark, EN 55022 B, EN 50082-1, EN 60950

POWERMATE ML RANGE

Mainstream **L**ine, a high-octane blend of the industry's best technology and features at value-conscious prices.

	ML470 **SFF, Micro-Tower & Small Desktop**
PROCESSOR	
Type	Intel® Celeron® 4XX
	Intel® Pentium™ Dual Core E2XXX
	Intel® Core™ 2 Duo E4XXX & E7XXX
	Intel® Core™ 2 Duo E8XXX
	Intel® Core™ 2 Quad Core Q6XXX
Socket / slot type	Socket LGA 775
L2 cache std	512KB Cache for Celeron® 1MB Cache for Intel® Pentium™ Dual-Core E2xxx 2MB Cache for Intel® Core™ 2 Duo E4xxx 3MB Cache for Intel® Core™ 2 Duo E7xxx 6MB Cache for Intel®Core™ 2 Duo E8xxx 8MB Cache for Intel®Core™ 2 Quad Q6xxx
ARCHITECTURE & MOTHERBOARD	
Format	Pico BTX (for SFF) & Micro BTX (for DT & MT)
Chipset	Intel® Q35 + ICH9 DO Chipset
Processor bus speed	800MHz, 1066MHz & 1333 MHz
Integrated Hardware monitoring ASIC	Yes
BIOS	
DMI 2.3 compliant	Yes
Upgradeable in flash	Yes
MEMORY	
98145,452	512MB / 4GB / DDR2 667/800 Mhz for SFF 512MB / 8GB / DDR2 667/800Mhz for DT & MT
Memory slots	2 DIMM (Dual Channel Support) for SFF 4 DIMM (Dual Channel Support) For DT & MT
STORAGE	
Hard disk drive	80GB / 160GB / 250GB SATA
Hard disk drive controller	SATA Interface (2 connectors)
Floppy disk drive	Optional
DVD ROM drive	Optional on DT & MT
Combo DVD/CDR-W	Optional
DVD+R9	Optional
VIDEO	
Video controller	Integrated Intel® Graphics Media Acclerator 3100
Video memory	Up to 256MB Shared Memory (if 512MB of Main memory or Higher DVMT)
Optional Boards	PCIe 16x Nvidia GeForce 8400 256MB-DDR2 ATX VGA/DVI PCIe 16x ATI Radeon HD2600Pro 512MB-DDR3 DVI-I/TVO DVI-D Adapter
SOUND	
Audio controller	Integrated Azalia Audio Controller
NETWORK	
Network interface controller	Integrated Intel 82566DM Gigabit Network connection with support for Wake on Lan
Network capabilities	"Circuit breaker" to remotely disconnect client from network
SECURITY	
Recovery CD	No
HDD Recovery System Preloaded	Yes
2 level passwords	Administrator & User
Hardware features	Anti-theft ring and Kensington lock hole Keyboard & mouse antitheft Intrusion switch Integrated Hardware monitoring ASIC

POWERMATE ML RANGE

Mainstream **L**ine, a high-octane blend of the industry's best technology and features at value-conscious prices.

	ML470 **SFF, Micro-Tower & Small Desktop**
I/O PORTS	
Type	8 : 2 at front, 6 at rear
Serial ports	1 (+1 optional)
Parallel port	1 (ECP/EPP)
MBuse / keyboard port	1 / 1
SVGA video port	1
Network Port	1
Audio In/Out ports	1 line in, 1 line out, 1 microphone
BAYS	
5.25" bays	SFF : 1 slim external Small DT : 1 external Micro-Tower : 2 external
3.5" bays	SFF : 2 1 slim external 1 internal (used by HDD) Small Desktop : 3 1 external 2 internal (1 used by HDD) Micro-Tower : 4 2 external 2 internal (1 used by HDD)
SLOTS	
Bus slots total	Micro-Tower : 1 PCI 16x + 1 PCIe 1x + 2 PCI Small Desktop : 1 PCI 16x + 1 PCIe 1x + 2 PCI LP Small Desktop + Riser : 1PCI 16x + 2 PCI SFF : 1 PCI
POWER SUPPLY	
Power supply specs	SFF : 110/220 VAC - 50/60Hz -250W Desktop : 110/220 VAC - 50 / 60Hz - 250W Micro-Tower : 110/220 VAC - 50 / 60Hz - 250W
Power supply type	Soft On/Off - Wake on LAN supported
PHYSICAL SPECIFICATIONS	
Chassis type	SFF Chassis & Micro-Tower & Desktop
Size (WxDxH)	SFF : 92 x 307 x 347 mm Micro-Tower : 170 x 424 x 391 mm Desktop : 371 x 386 x 102 mm
Weight	SFF: 5,1Kg Desktop : 5.4Kg Micro-Tower: 7.2Kg
OS AND SOFTWARE	
Operating system	Microsoft® Windows Vista Home Basic / Business
Office softwares	Microsoft® Office Basic / SBE / Pro 2007 optional
Anti-virus	Norton Internet Security 2007 (90 Days)
Vendor certification	WLP 2.0 compliant, Mandriva Linux tested
WARRANTY	
Standard warranty	3 years on site (Optional 1 year on site)
NEC ULTRACARE SERVICES	
Warranty Extensions	3Y On-site D+1 Repair Time Commitment
Value Added Services	
REGULATORY & SAFETY	
Regulatory compliance	CE Mark, EN 55022 B, EN 50082-1, EN 60950

POWERMATE VL REFERENCES

For uncompromising reliability and performance at all time low-costs,
Value **L**ine desktops are unbeatable.

Unbeatable value for uncompromising performance

Description			Reference	
POWERMATE VL280 - *Intel G31 chipset (µBTX)*			**Small Desktop**	**Microtower**
Celeron 450	Vista Home	1GB DDR-RAM, 80GB, Combo, Network, 3Years Warranty	PE6N485-000CZ02**	PE7N4DP-000CZ02**
	Vista Business	1GB DDR-RAM, 80GB, Combo, Network, 3Years Warranty	PE6N4DR-000CZ02**	PE7N4DT-000CZ02**
Pentium Dual Core E2180	Vista Home	1GB DDR-RAM, 160GB, Combo, Network, 3Years Warranty	PE7N4DX-000CZ02**	PE7N4DX-000CZ02**
	Vista Business	1GB DDR-RAM, 160GB, Combo, Network, 3Years Warranty	PE7N4DY-000CZ02**	PE7N4DY-000CZ02**
Core2 Duo E7300	Vista Home	2GB DDR-RAM, 250GB, DVD+R9, Network, 3Years Warranty	PE6N4E0-000CZ02**	PE7N4E1-000CZ02**
	Vista Business	2GB DDR-RAM, 250GB, DVD+R9, Network, 3Years Warranty	PE6N4E2-000CZ02**	PE7N4E3-000CZ02**
Core2 Duo E8400	Vista Home	2GB DDR-RAM, 250GB, DVD+R9, Network, 3Years Warranty	PE6N4E5-000CZ02**	PE7NURT-000BZ02**
	Vista Business	2GB DDR-RAM, 250GB, DVD+R9, Network, 3Years Warranty	PE6N7P7-000AZ02**	PE7NURU-000BZ02**

POWERMATE VL370 - *AMD RS690 chipset (pBTX pour SFF µATX pour MT & DT)*			**SFF**	**Small Desktop**	**Microtower**
Sempron LE-1250	Vista Home	1GB DDR-RAM, 80GB, DVD+R9, Network, 3Years Warranty	PD9N2FB-000CZ02**	PE1N4EL-000CZ02**	PE2N4EM-000CZ02**
	Vista Business	1GB DDR-RAM, 80GB, DVD+R9, Network, 3Years Warranty	PD9NZ4H-000AZ02**	PE1NZTR-000AZ02**	PE2NZTY-000AZ02**
Athlon64 LE-1640b	Vista Home	1GB DDR-RAM, 160GB, DVD+R9, Network, 3Years Warranty	PD9N4ER-000CZ02**	PE1N4ET-000CZ02**	PE2N4EX-000CZ02**
	Vista Business	1GB DDR-RAM, 160GB, DVD+R9, Network, 3Years Warranty	PD9N4F0-000CZ02**	PE1N4F1-000CZ02**	PE2N4F3-000CZ02 **
Athlon64 X2 4450e	Vista Home	2GB DDR-RAM, 250GB, DVD+R9, Network, 3Years Warranty	PD9N4F5-000CZ02**	PE1N4F6-000CZ02**	PE2N4F7-000CZ02**
	Vista Business	2GB DDR-RAM, 250GB, DVD+R9, Network, 3Years Warranty	PD9N4F9-000CZ02**	PE1N4FB-000CZ02**	PE2N4FC-000CZ02**
Athlon64 X2 5600+	Vista Home	2GB DDR-RAM, 250GB, DVD+R9, Network, 3Years Warranty	PD9N4FD-000CZ02**	PE1NAFS-0009Z02**	PE2NAGF-0009Z02**
	Vista Business	2GB DDR-RAM, 250GB, DVD+R9, Network, 3Years Warranty	PD9N4FE-000CZ02**	PE1N6XN-0009Z02**	PE2N6XK-0009Z02**

*(1) **=Country code : 01=British,*

*(2) **=Country code : 01=British,*

POWERMATE ML REFERENCES

Mainstream **L**ine, a high-octane blend of the industry's best technology and features at value-conscious prices.

Escorting corporate users to a new level of computing

Description			Reference		
POWERMATE ML470 - *Intel i035 chipset (pBTX pour SFF, µATX pour MT & DT)*			SFF	Small Desktop	Microtower
Pentium Dual Core E2160	Vista Home	1GB DDR-RAM, 160GB, DVD+R9, Network, 3 Years Warranty	PE3N4FK-000CZ02**	PE4N4FL-000CZ02**	PE5N4FM-000CZ02**
	Vista Business	1GB DDR-RAM, 160GB, DVD+R9, Network, 3 Years Warranty	PE3N4FP-000CZ02**	PE4N4FS-000CZ02**	PE5N4FU-000CZ02**
Core2 Duo E4600	Vista Home	2GB DDR-RAM, 250GB, DVD+R9, Network, 3 Years Warranty	PE3N4FW-000CZ02**	PE4N4FY-000CZ02**	PE5N4G0-000CZ02**
	Vista Business	2GB DDR-RAM, 250GB, DVD+R9, Network, 3 Years Warranty	PE3N4G2-000CZ02**	PE4N4G4-000CZ02**	PE5N4G5-000CZ02**
Core 2 Quand Q6600	Vista Home	2GB DDR-RAM, 250GB, DVD+R9, Network, 3 Years Warranty	PE3N36D-000AZ02**	PE4N3AW-000AZ02**	PE5N3AR-000AZ02**
	Vista Business	2GB DDR-RAM, 250GB, DVD+R9, Network, 3 Years Warranty	PE3N36E-000AZ02**	PE4N3AU-000AZ02**	PE5N3AS-000AZ02**

*(1) **=Country code : 01=British, 02=French - For other languages, please contact us.*

*(2) **=Country code : 01=British, 02=French, 03=German, 05=Dutch - For other languages, please contact us.*

DESKTOP OPTIONS

Description	VL260	VL360	VL370	VL280	ML460	ML470	Reference
MEMORY							
DDR2-RAM Memory Upgrade 1GB (667MHz) 1 x 1GB	X	X	X	X	X	X	AME-0832-00-00
DDR2-RAM Memory Upgrade 1GB (800MHz) 1 x 1GB	X	X	X	X	X	X	AME-0834-00-00
DDR2-RAM Memory Upgrade 2GB (667MHz) 2 x 1GB	X	X	X	X	X	X	AME-0828-00-00
DDR2-RAM Memory Upgrade 2GB (667MHz) 1 x 2GB			X	X		X	AME-0833-00-00
DDR2-RAM Memory Upgrade 2GB (800MHz) 1 x 2GB	X	X	X	X	X	X	AME-0835-00-00
Only memory upgrade modules supplied by NEC Computers International are supported.							
TAPE/DISK DRIVES							
Removable Black SATA HDD Kit	X1	X1					ADE-0300-00-B0
80 GB Ultra DMA SMART SATA Hard Disk Drive (7200 RPM)	X	X	X	X	X	X	ADH-0800-02-00
160 GB Ultra DMA SMART SATA Hard Disk Drive (7200 RPM)	X	X	X	X	X	X	ADH-1600-00-00
250 GB Ultra DMA SMART SATA Hard Disk Drive (7200 RPM)	X	X	X	X	X	X	ADH-2500-00-00
320 GB Ultra DMA SMART SATA Hard Disk Drive (7200 RPM)	X	X	X	X	X	X	ADH-3200-00-00
1 - Not for Desktop models							
SECURITY							
Kensington Security Device	X	X		X	X		A000062900
Kensington Security Device			X	X	X	X	AIF-6000-00-00

Description	VL260	VL360	VL370	VL280	ML450	VL270	ML460	ML470	Reference
MULTIMEDIA									
SATA DVD ROM Drive 16x / 40x min.	**X**	**X**			**X**				ADR-DV16-02-B0
SATA Combo Drive DVD/CDR-W Slim				**X2**		**X**	**X**	**X2**	ADR-CMBS-01-B0
SATA DVD+R9 Drive Slim				**X2**		**X**	**X**	**X2**	ADR-DWR9-S1-B0
Internal FDD 3" 1/2 Slim for SFF chassis	**X**	**X**			**X**				AFD-3510-00-B0
Internal FDD 3" 1/2 for Slim chassis				**X2**		**X**	**X**	**X2**	AFD-3500-00-B0
Internal FDD 3" 1/2	**X**	**X**			**X**				AFD-3500-00-B1
NVidia GeForce 7100GS 128MB-DDR2 ATX VGA/DVI PCIe-16x		**X**			**X**				AVI-0159-00-00
NVidia GeForce 7100GS 256MB-DDR3 ATX VGA/DVI/TV PCIe-16x		**X**			**X**				AVI-0160-00-00
NVidia GeForce 7100GS 256MB-DDR3 ATX VGA/DVI/TV PCIe-16x Low Profile		**X**	**X1**	**X1**	**X**			**X1**	AVI-0160-00-LP
NVidia GeForce 8400 256MB-DDR3 ATX VGA/DVI/TV PCIe-16x Low Profile			**X**	**X**				**X**	AVI-0169-00-00
ATI Radeon HD2600 Pro 512MB - DDR3 ATX DVI-I/DVI-I/TVO PCIe-16x	**X3**	**X3**	**X3**	**X3**	**X3**			**X3**	AVI-0167-00-00
NVidia NVS285 128MB-DDR ATX DMS-59 PCIe-1x	**X**	**X**			**X**	**X**	**X**		AVI-0161-00-00
NVidia NVS285 128MB-DDR ATX DMS-59 PCIe-1x Low Profile	**X2**	**X**			**X2**	**X**	**X**		AVI-0161-00-LP
DVI-D Adaptor ATX	**X1**		**X**		**X1**			**X**	AVI-0137-00-00
DVI-D Adaptor LP	**X2**		**X**		**X2**			**X**	AVI-0138-00-00

1 - Not for Slim models
2 - For SFF Chassis only
3- For Microtower Only

MISCELLANEOUS									
Extension For PCI full height (SFF chassis only)			**X**			**X**	**X**	**X**	ARB-0100-00-00
Second Serial Port cable						**X**	**X**		AIF-6100-00-00
Second Serial Port cable	**X**	**X**			**X**				AIF-5500-00-02
Black 3D USB Optical Mouse with wheel	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	AIM-USB0-01-B0
Black & Silver USB Keyboard	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	AIB-USB0-B0-XX
Black & Silver PS2 Keyboard	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	AIB-PS20-B0-XX
USB Stereo speakers	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	AUC-0410-00-B0
Internal speaker	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	AUC-0411-00-00

LCD MONITORS

LCD LX17m

Optimum comfort for space conscious users

LCD LX19m

Large comfort for conscious users

REFERENCE Black	**NCL-1718-I0-B0**	**NCL-1918-I0-B0**
SCREEN SPECIFICATIONS		
MBnitor Type	Colour TFT active matrix	Colour TFT active matrix
Screen diagonal	17"	19"
Viewable diagonal	17"	19"
DISPLAY SPECIFICATIONS		
Dot Pitch (mm)	0.264	0.294
Horizontal scan frequency (kHz)	31-82	30-82
Vertical refresh rate (Hz)	56-76	56-76
Multi-synchronous inputs	Yes	Yes
Response time	5ms	5ms
Luminance/Brightness	300cd/m2	300cd/m2
Contrast ration	800:1	800:1
Optimum resolution	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz
Resolutions supported	720 x 400 @ 70 Hz 640 x 480 @ 60Hz/75Hz 800 x 600 @ 60Hz/5Hz 1024 x 768 @ 60Hz/70Hz/75Hz 1280 x 1024 @ 60Hz/75Hz	720 x 400 @ 70Hz 640 x 480 @ 60Hz/75Hz 800 x 600 @ 60Hz/75Hz 1024 x 768 @ 60Hz/70Hz/75Hz 1280 x 1024 @ 60Hz/75Hz
Number of colors	16.77 Million	16.77 Million
OTHER SPECIFICATIONS		
Front panel control	On Screen Display	On Screen Display
VESA/DPMS Power management	Yes	Yes
Input type	1 x VGA	1 x VGA & 1 x DVI-D
REGULATORY & SAFETY		
DDC1/2B - Plug & Play	Yes	Yes
Energy Star	Yes	Yes
MPRII	Yes	Yes
TCO	TCO 03	TCO 03
CE Mark, TUV-GS, UL, CSA, FCC, ISO 9241-3, DHHS	Yes	Yes
PHYSICAL SPECIFICATIONS		
Size (WxHxD)	366.1 x 389 x 170,6 mm	400 x 420 x 190 mm
Weight	3.5 kg	3.6 kg
WARRANTY		
Standard warranty	3 years On Site Swapp	3 years On Site Swapp

Note: Our monitors can only be sold together with a Desktop, Notebook or Server

LCD MONITORS WIDE

LCD LX17m

Optimum comfort for space conscious users

LCD LX19m

Large comfort for conscious users

	LCD LW19m	LCD LX19m
	Optimum comfort for space conscious users	*Large comfort for conscious users*
REFERENCE Black	**NCL-1900-P0-BW**	**NCL-2200-P0-BW**
SCREEN SPECIFICATIONS		
MBnitor Type	Colour TFT active matrix	Colour TFT active matrix
Screen diagonal	19"	22"
Viewable diagonal	19"	22"
DISPLAY SPECIFICATIONS		
Dot Pitch (mm)	0.285mm	0.276mm
Horizontal scan frequency (kHz)	30-81	30-82
Vertical refresh rate (Hz)	56-75	56-76
Multi-synchronous inputs	Yes	Yes
Response time	5 ms	5 ms
Luminance/Brightness	300cd/m2	300cd/m2
Contrast ration	1000:1	3000:1
Optimum resolution	1440 x 900 @ 75 Hz	1680 x 1050 @ 60 Hz
Number of colors	16.77 Million	16.77 Million
OTHER SPECIFICATIONS		
Front panel control	On Screen Display	On Screen Display
VESA/DPMS Power management	Yes	Yes
Input type	1 x VGA	1 x VGA
REGULATORY & SAFETY		
DDC1/2B - Plug & Play	Yes	Yes
Energy Star	Yes	Yes
MPRII	Yes	Yes
TCO	TCO 03	TCO 03
CE Mark, TUV-GS, UL, CSA, FCC, ISO 9241-3, DHHS	Yes	Yes
PHYSICAL SPECIFICATIONS		
Size (WxHxD)	348 mm x 433 mm x 186 mm	478 mm x 566 mm x 154 mm
Weight	4 Kg	5.4 Kg
WARRANTY		
Standard warranty	3 years On Site Swapp	3 years On Site Swapp

Note: Our monitors can only be sold together with a Desktop, Notebook or Server

OVERVIEW OF THE NEC VERSA RANGE

NEC Versa and NEC Generation are two families of complementary mobile products dedicated to professional users. **Equipped with the latest technologies**, these two ranges also respect your budgetary constraints, especially through the N3000 offer. This product offers the best price / performance and a very elegant design.

The Versa M and P notebooks are middle range products targeting mobile users.
The two products share a lot of characteristics and peripheral devices and have been conceived in order to facilitate work for IT managers. An example is the FlexLoad DVD, developed by the technological site in Angers, which allows you to easily downgrade your operating system to Microsoft Windows XP Professional.

Furthermore, the numeric keypad integrated on the M380 – an exclusive offer of NEC Computers – has already convinced a great number of users.

Last but not least, **the Versa S9100 will convince the ultra mobile workers** by its mini format and its low weight, whereas the Versa P9110 is the best choice for those in search of a powerful and comfortable tool.

[INTEGRATED NUMERIC KEYPAD **on Versa M380 and P570**]

[MOBILITY **with style**]

**NO MATTER WHAT YOUR REQUIREMENTS ARE,
THERE IS ALWAYS A NEC VERSA THAT CAN MEET YOUR NEEDS!**

SOLUTIONS MOBILES NEC

[MOBILITY for the best price] [BALANCE between performance and mobility] [MOBILITY AND COMFORT without compromise] [PERFORMANCE and comfort of use]

MODEL	N3000	VERSA M380	VERSA P570	VERSA S970	Versa S9100	VERSA P9110
CATEGORY	15.4" Screen	15.4" Screen	15.4" High Resolution	14.1" wide screen	12" Screen	17" Screen High Resolution
VISUELS						
TECHNOLOGY						
CPU Type	Intel® Core™2 Duo, Intel® Celeron	Intel® Core™2 Duo	Intel® Core™2 Duo, Intel® Celeron	Intel® Core™2 Duo, Intel® Celeron	Intel® Core™2 Duo ULV	Intel® Core™2 Duo, Intel® Celeron
SCREEN	15.4" wide (WXGA)	15.4" wide (WXGA)	15"4 wide (WSXGA+)	14,1" wide (WXGA)	12'' WXGA Supershine	17" wide (WXGA+)
VIDEO max	Up to 256MB shared memory	Up to 384MB shared memory	256MB dedicated memory	Up to 384MB shared memory	Up to 384MB shared memory	256 MB dedicated memory
MEMORY max	4GB DDR2	4GB DDR2	4GB DDR2	4GB DDR2	2GB DDR2	4GB DDR2
HARD DRIVE max	from 160 to 250GB	from 160 to 320GB	from 120 to 250GB	from 120 to 250GB	from 120 to 250GB	from 160 to 250GB
OPTICAL	DVD+R9	DVD+R9	DVD+R9	DVD+R9	DVD+R9	DVD+R9
First battery	6 cells	6 cells / 9 Cells	6 Cells / 9 Cells	6 Cells / 12 cells	6 Cells	6 Cells / 9 Cells
MODEM	Integrated 56K modem	Integrated 56K modem	Integrated 56K modem	Integrated 56K modem	None	Integrated 56K modem
LAN	10/100	10/100/1000	10/100/1000	10/100/1000	10/100/1000	10/100/1000
Wireless LAN	802.11b/g	WiFi Link 5100 agn	802.11a/b/g	802.11a/b/g	802.11a/g/n	802.11a/b/g
Port replicator (option)	USB (with VGA)	NEC Port Replicator	NEC Port Replicator	NEC Port Replicator	USB (with VGA)	USB (with VGA)
WEIGHT	2.5 Kg	2.6 Kg	2.7 Kg	2.2 kg	1.25Kg	3.6 Kg

VERSA S9100

NEC recommends Microsoft® Windows® XP Professional

The NEC Versa S9100 has been conceived as a response to the needs of frequent travellers searching for absolute mobility.

Equiped with a ULV (ultra low voltage) processor that assures maximum performance and autonomy, the S9100 is the best travel companion for businessmen.

Thin and with an outsanding design, this is an elegant professional tool that also provides excellent performance and usage comfort. The 12.1" SuperShine screen, together with the magnesium alloy provide optimal use and readability.

On the security side, the S9100 is equiped with BIOS and HDD password, but also with a TPM 1.2 module and a biometric fingerprint reader, providing maximum protection for your data.

NEC VERSA S9100 SPECIFICATIONS

PROCESSOR	Mobile Intel® Core™2 Duo Ultra Low Voltage U7600 (1.2Ghz) - 2Mb cache memory
Chipset	Northbridge Intel® GM965 - Southbridge Intel® ICH8-M
Memory	DDR2-667 SDRAM (PC2-5300) (1 slot)
Screen (dimensions / type)	12" WXGA Supershine, LED blacklight technology, 1280 x 800 / 32bit
Video (controller / bus)	Graphic Media Accelerator X3100, up to 384Mb shared memory
Audio Controller	Integrated High Definition Audio
Hard Drive	160GB with G-Force anticshock protection technology, SATA 150
DVD Writer (DVD-RW/+RW)	Read: 24x CD, 8x DVD / Write : 4x DVD-R, 2,4xDVD+R/-RW/+RW, 10x CD-RW, 16x CD-R
Communication	LAN 10/100/1000, Wireless LAN Intel 4965 802.11 a/g/n, Bluetooth 2.0
Slots	1 type II Cardbus
Ports	2 USB 2.0, 1 VGA,Audio I/0
User interface	Integrated touchpad, keyboard - 87 keys
Dimensions (WxDxH)	292 x 214 x 29,8mm
Battery type/Autonomy	6 cells Li-Ion - 7800mAh / up to 6 hours depending on configuration
Software and Operating system	Windows Vista™ Business, PowerDVD 7.0, Roxio Creator 10, Norton Internet Security (60 days trial version)
Weight	1.25kg
Warranty	1 year pick-up and return on site D+5, European cover

STRENGTHS:

- Light: **1.25kg only**
- Secure : **Biometrics & TPM**
- Elegant design **thanks to the magnesium chassis**
- Space saver

VERSA M380

NEC recommends Microsoft® Windows® XP Professional

Maintaining the stability of the mobile offer, the M380 is the direct successor of the M370.

Equipped with a specific NEC feature (the numeric keypad integrated on a 15.4"), this notebook offers an advantageous balance between weight, performance and price.

Ideal for a professional use thanks to its accessories (optional port replicator, high capacity battery for long journeys) the M380 is perfect for business use.

Compatible with the M370 accessories and having a similar design, it ensures a smooth transition between generations.

The integrated touchpad, together with a new optimized keyboard, an e-SATA connector for external storage and the powerful integrated video controller position the M380 as one of the best 15.4" notebooks on the market.

NEC VERSA M380 SPECIFICATIONS

PROCESSOR	Mobile Intel® Core™2 Duo, 3MB and 6MB L2
Chipset	Northbridge Intel® GM45 - Southbridge ICH8-M with iAMT 4.0
Memory (std / max / type)	1024MB / 4096MB PC5300 DDR2 800 SDRAM on 2 dual channel slots
VIDEO	
Screen (dimensions / type)	15.4" Wide WXGA TFT
Video (controler / bus)	Intel®GMA X4500HD
Video (std memory / max / type)	Up to 384 MB shared memory
Audio controler	Realtek HDA ALC888, Azalia compatible
Hard Drive	160GB, 250GB, 320GB
DVD writer (DVD-RW/+RW)	Read : 24x CD, 8x DVD / Write : 4x DVD-R, 2x DVD+R/-RW/+RW, 10x CD-RW, 16x CD-R
Communication	LAN 10/100/1000, Wireless LAN Intel WiFi Link 5100 supporting iAMT, Bluetooth 2.0
Slots	1 Express Card 34/54, 5-in-1Card Reader
Ports	4 USB 2.0 (1 combo with eSATA), 1 VGA, Audio I/O, 1x IEEE , 1 IRDA, 1 Port Replicator Connector, 1 RJ11
Dimensions (WxDxH)	332 x 240 x 35mm
Batteries /Autonomy	6 cells Li-Ion / 3.5 hours - 9 cells Li-Ion (option) / 5 hours depending on configuration
Software and Operating system	Windows Vista™ Business, Windows Vista™ Home Basic, PowerDVD 7.0, Roxio Creator 10, Norton Internet Security (60 days trial version)
Weight	2.6 kg
Warranty	1 year pick-up and return on site D+5, European cover

STRENGTHS :

- Integrated numeric keypad **for maximum comfort**
- Design and perfect compatibility **with its predecessor**
- Corporate **product**

NEC GENERATION N3000

NEC recommends Microsoft® Windows® XP Professional

Discover the new NEC Generation N3000, an economical 15.4" that you will love showing around.

The elegant and modern look of the N3000 is the proof that a tight budget doesn't have to mean poor design.

Well equipped, high performance and light (2.5kg only), the N3000 is the new entry level of the NEC Mobility offer. Integrating the latest technologies, such as a 2Mpix webcam, it will be the mobile companion of the SMB searching for the best price performance.

Differenciate yourself with the new N3000!

NEC GENERATION N3000 SPECIFICATIONS

PROCESSOR	Mobile Intel® Pentium Dual Core and Intel Core™2 Duo with 1MB or 3MB of cache memory
Chipset	Northbridge SiSM672 - Southbridge SiS 968
Memory (std / max / type)	1024MB / 4096MB PC5300 DDR2 667 SDRAM on 2 slots dual channel
Screen (dimensions / type)	15.4" Wide WXGA TFT
Video (controller / bus)	SiS Mirage™3+, up to 256MB shared memory, Webcam 2Mpix
Audio controller	16bit/44kHz stereo
Hard drive	160GB and 250GB 5400rpm
DVD Writer (DVD-RW/+RW)	Read : 24x CD, 8x DVD / Write : 4x DVD-R, 2,4x DVD+R/-RW/+RW, 10x CD-RW, 16x CD-R
Communication	SiS 191 LAN 10/100, WiFi Ralink bg, Bluetooth 2.0 + EDR
Slots	1 Express Card 34/54, 7-in-1 Card Reader
Ports	3 USB 2.0, 1 VGA, Audio I/O , 1 RJ11
Dimensions (WxDxH)	359 x 268 x 37mm
Battery / Autonomy	6 cells Li-Ion 4000mAh /up to 2 hours depending on configuration
Software and Operating system	Windows Vista™ Business, Windows Vista™ Home Basic, PowerDVD 7.0, Roxio Creator 10, Norton Internet Security (60 days trial version)
Weight	2.5 kg
Warranty	1 year pick-up and return on site D+5, European cover

STRENGTHS :

- **Best price** performance
- **Elegant** look
- **One of the lightest 15.4"** on the market

VERSA P570

NEC recommends Microsoft® Windows® XP Professional

The Versa P570 is at the core of the NEC mobility offer.

Powerful and well equipped, these notebooks integrate very professional functions

Compatible with the Versa family port replicator, it allows you to rapidly and simply connect to the network and peripheral devices. Furthermore, the large keyboard and the integrated numeric keypad bring you a level of working comfort which is unexpected for a mobile platform.

With its dedicated graphics card and its high resolution, the Versa P570 is a very powerful model of the professional offer. If you need high autonomy, a 9-cells battery is available in option, in order to allow you to work freely all day long.

All in all, we're talking about very professional functions that will satisfy the most demanding clients.

NEC VERSA P570 SPECIFICATIONS

PROCESSOR	Mobile Intel® Core™2 Duo T8XXX, Intel® Celeron 5XX, 3MB and 1MB L2
Chipset	Northbridge Intel® GM965 - Southbridge ICH8-M
Memory (std / max / type)	512MB / 4096MB PC5300 DDR2 667 SDRAM on 2 dual channel slots
VIDEO	
Screen (dimensions / type)	15.4" Wide WSXGA+ TFT
Video (controler / bus)	nVidia®Geforce 8400M GS
Video (std memory / max / type)	256MB of dedicated memory
Audio controller	Realtek HDA ALC888, Azalia compatible
Hard drive	160GB and 250GB
DVD Writer (DVD-RW/+RW)	Read : 24x CD, 8x DVD / Write : 4x DVD-R, 2x DVD+R/-RW/+RW, 10x CD-RW, 16x CD-R
Communication	LAN 10/100/1000, Intel 3945 or 4965 802.11a/b/g, Bluetooth 2.0 depending on configuration
Slots	1 type II Cardbus support, 5 in 1 card reader
Ports	4 USB 2.0, 1 VGA, Audio I/O, 1 IEEE1394, 1 IRDA, 1 Port Replicator connector, 1 TV Out, 1 RJ11
Dimensions (WxDxH)	358 x 260 x 35mm
Batteries /Autonomy	6 cells Li-Ion / 3 hours - 9 cells Li-Ion battery (option) / 4.5 hours depending on configuration
Software and Operating system	Windows Vista™ Business, Windows Vista™ Home Basic, PowerDVD 7.0, Roxio Creator 10, Norton Internet Security (60 days trial version)
Weight	2.7 Kg
Warranty	1 year pick-up and return on site D+5, European cover

STRENGTHS:

- Both **power and comfort**
- Homogenous offer **for the business user**
- **Integrated numeric keypad** for maximum productivity
- **Corporate** features

VERSA S970

NEC recommends Microsoft® Windows® XP Professional

The Versa S970 is the lightest model of the NEC corporate mobile range.

This notebook shares the same peripheral devices as the M3xx and P5xx series, but it differenciates itself by the reduced form factor, its lower weight and the 14.1" Wide screen.

Offering the TPM module and biometrics as an option, the S970 represents the classic configuration for sales forces or for users looking for the best performance and a low weight.

In spite of its small form factor, the S970 integrates the latest Intel technologies and its lightness doesn't lead to a decline in terms of power or performance - this notebook responds to the needs of the most demanding users.

NEC VERSA S970 SPECIFICATIONS

PROCESSOR	Mobile Intel® Core™2 Duo T8XXX, Intel® Celeron 5XX, 3MB L2 on T8XXX and 1MB L2 on Celeron
Chipset	Northbridge Intel® GM965 - Southbridge Intel® ICH8-M
Memory (std / max / type)	512MB / 4096MB PC2-5300 DDR2 667 SDRAM, two slots
Screen (dimensions / type)	14.1" Wide WXGA TFT , 1280 x 800 / 32bit
Video (controller / bus)	Graphic Media Accelerator X3100, up to 384MB shared memory
Audio Controller	Audio Codec Connexant 20468-31
Hard Drive	From 80GB to 250GB, SATA 150
DVD Writer (DVD-RW/+RW)	Read: 24x CD, 8x DVD / Write : 4x DVD-R, 2x DVD+R/-RW/+RW, 10x CD-RW, 16x CD-R
Communication	LAN 10/100/1000, Intel 3945 or 4965 802.11a/b/g, Bluetooth 2.0 depending on configurations
Slots	1 type II Cardbus support, 5 in 1 card reader
Ports	3 USB 2.0, 1 VGA, Audio I/O, 1 IEEE1394, 1 IRDA, 1 Port Replicator Connector, 1 TV Out, 1 RJ11 (option)
User interface	Integrated touchpad, keyboard - 87 keys
Battery / Autonomy	Li-Ion 6 cells / 4 hours - 12 cells Li-Ion (option) / 7 hours depending on configuration
Software and Operating System	Windows Vista™ Business, Windows Vista™ Home Basic, PowerDVD 7.0, Roxio Creator 10, Norton Internet Security (60 days trial version)
Dimensions (WxDxH)	332 x 240 x 35 mm
Weight	2.2 kg
Warranty	1 year pick-up and return on site D+5, European cover

STRENGTHS:

- Thin and light : **2.2kg only**
- Small form factor **for maximum mobility**
- **Corporate** product

VERSA P9110

NEC recommends Microsoft® Windows® XP Professional

The Versa P9110 is the notebook targeted at those looking for a powerful configuration offering a maximum work comfort.

Designed for a mostly sedentary use, this platform meets the needs of a growing market segment.

The users search for more and more ergonomic and powerful products and are not always ready to sacrifice these to mobility. The Versa P9110, with its modest 3.6kg, its supershine screen, the integrated numeric keypad and the extension connectors, perfectly answers to these requests.

Delivered with Windows Vista Business, the product will perfectly integrate itself in the professional environments where the optimum visual comfort and a high level of performance are the main choice criteria.

NEC VERSA P9110 SPECIFICATIONS

PROCESSOR	Mobile Intel® Core™2 Duo T5 and 8XXX, 3MB L2
Chipset	Northbridge Intel® GM965 - Southbridge ICH8-M
Memory (std / max / type)	512MB / 4096MB PC5300 DDR2 667 SDRAM on 2 dual channel slots
Screen (dimensions / type)	17.1' Wide WXGA TFT WXGA+ Supershine
Video (controller / bus)	nVidia®Geforce 8400M GS, 256MB dedicated memory
Audio controller	16bit/44kHz stereo Audio Controller
Hard Drive	160GB and 250GB
DVD Writer (DVD-RW/+RW)	Read : 24x CD, 8x DVD / Write : 4x DVD-R, 2x DVD+R/-RW/+RW, 10x CD-RW, 16x CD-R
Communication	LAN 10/100/1000, Wifi Intel 3945abg, Bluetooth (depending on configurations)
Slots	1 ExpressCard, 5-in-1 Card Reader
Ports	3 USB 2.0, 1 VGA, Audio I/O, 1 IEEE1394, 1 IRDA, 1 Port Replicator connector, 1 HDMI, 1 RJ11
Dimensions (WxDxH)	395 x 278 x 34,9mm
Batteries /Type - Autonomy	9 cells Li-Ion/up to 3,3 hours depending on configuration
Software and Operating System	Windows Vista™ Business, Windows Vista™ Home Basic, PowerDVD 7.0, Roxio Creator 10, Norton Internet Security (60 days trial version)
Weight	3.6 kg
Warranty	1 year pick-up and return on site D+5, European cover

STRENGTHS :

- **Power and comfort** concentrated in 3.6kg
- Maximum power **in an optimized machine**
- **Optimum** ergonomy

COMFORT OF USE

NEC COMPUTERS EXCLUSIVITY : INTEGRATED NUMERIC KEYPAD

The M380 offers an unique feature on the market:
the integrated numeric keypad
A NEC Computers exception

Design even for low prices
N3000, a differenciating look !

All our products are
RoHS compliant

PORT REPLICATOR

Specifications		REFERENCE	PRICE
Bundle NEC Port Replicator + AC Adapter	**Versa M380**	A00049000	179 €

Serial port
Parallel port
2 PS/2 ports
4 USB ports
VGA port (external monitor)
Network connexion 10/100/1000 RJ 45
Audio Port
Security cable slot
DVI port (for S970 & P570 only)
Power connexion
AC Adapter and cable

NOTEBOOK ACCESSORIES

ACCESSORIES	REF	SPECIFICATIONS	M380	M370	P570	S970	S9100	P9110
MEMORY EXTENSION MODULE	A000160800	1Go DDR2 800MHz	X	X	X			X
	A000160700	2Go DDR2 800MHz	X	X	X		X	X
PORT REPLICATOR	A000450000	NEC Port Replicator		X	X			
	A000490000	NEC Port Replicator + AC Adapter Europe		X	X	X		
	A000380000	NEC Port Replicator + AC Adapter Europe	X					
ADDITIONAL BATTERIES	A000153800	6 cells Li-Ion battery		X	X			
	A000153900	9 cells Li-Ion battery		X	X			
	A000155400	9 cells Li-Ion battery						X
	A000155500	6 cells Li-Ion battery					X	
	A000153200	6 cells Li-Ion battery				X		
	A000154200	12 cells Li-Ion battery				X		
	A000360000	9 cells Li-Ion battery	X					
	A000370000	6 cells Li-Ion battery	X					
AC ADAPTER	A000153300	AC Adapter 90W Europe		X	X			X
	A000155700	AC Adapter 90W Europe					X	
	A000350000	AC Adapter 90W Europe	X					
SECURITY CABLE	A000330000	Security cable single lock	X	X	X		X	X
CARRYING CASE	A000115200	NEC Standard Notebook Computer Case	X	X	X			

THIN CLIENT SOLUTIONS

SECURITY

No data storage
No backup needed
No virus threat
Safety Lock available

RELIABILITY

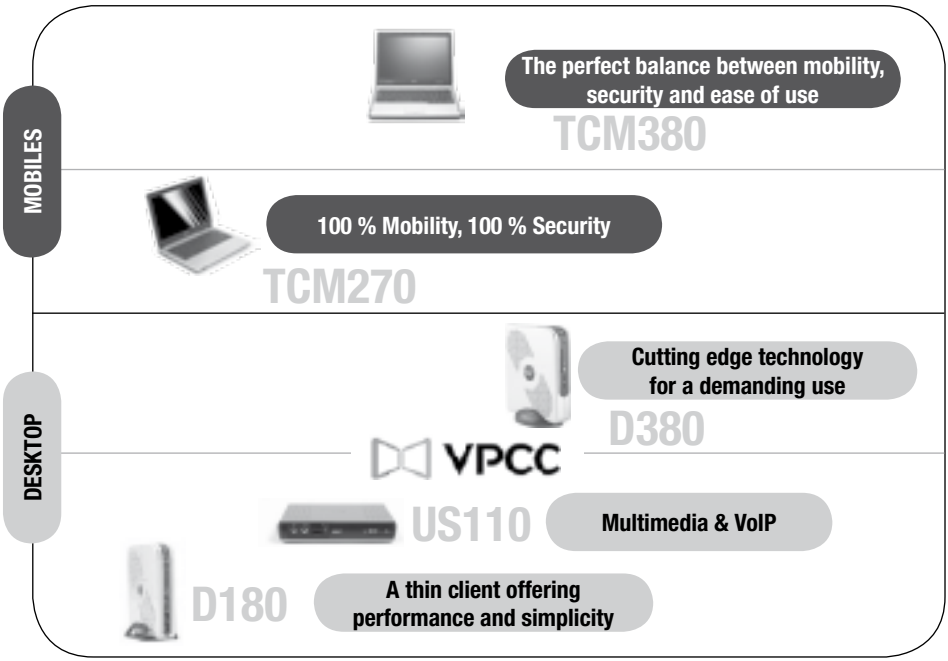
More reliable than PCs
Steel case
No removable parts
Robust and reliable

PROFITABILITY

Lower TCO
Long life cycle :
2 to 3 times
longer than PCs

MANAGEMENT

Fast deployment
Easy management
Controlled Remotely



Due to its outstanding achievements, NEC Computers is today one of the leading companies on the thin clients market. In order to answer all of your requirements, NEC proposes a complete offer of innovating products that suit every business environment..

- Thoroughly compatible with the Citrix ICA (Presentation Server, XenApp) and Microsoft RDP (Terminal Services) environments, the NEC Quovio range also integrates itself perfectly in the Virtual Desktop Infrastructures (VDI).
- The NEC Quovio range is simple, ergonomic, safe and profitable for your company. Indeed, this wide offer, that includes not only hardware (simple, compact, upgradeable and mobile products), but also software (NEC Linux, Windows CE optimized by NEC, Windows XPe, dedicated management tool).

NEC THIN CLIENTS RANGE

	SIMPLICITY AT BEST PRICE	THE BEST CHOICE FOR ADVANCED USE	VIRTUALISED PCS	MOBILITY AND SECURITY without compromise	PERFORMANCE AND COMFORT OF USE
PLATEFORM	**Quovio D180**	**Quovio D380**	**US110**	**Quovio TCM270**	**Quovio TCM380**
PLATEFORM	Compact and ergonomic	Powerful and flexible	Integrated to NEC Virtual PC Center	Mobile formfactor with 12.1" screen	Mobile formfactor with 15.4" screen
			NEC Next Generation Thin Client System **Virtual PC Center**		
CPU	VIA C7 400Mhz	Intel Celeron M 1Ghz	NetClient 400Mhz	VIA C7-M ULV 1.2Ghz	VIA C7-M ULV 1.2Ghz
OPERATING SYSTEM	Linux, Windows CE	Linux, Windows XP Embedded	Windows CE	Windows XP Embedded	Windows XP Embedded
MEMORY CONFIGURATION	FLASH / DOM, 256Mb RAM DDR2, 512Mb	«FLASH / DOM, 512MB or 1GB RAM DDR2, 512MB or 1GB»	«FLASH / DOM, 128MB RAM DDR2, 128MB»	«FLASH / DOM, 512MB or 1GB RAM DDR2, 512MB or 1GB»	«FLASH / DOM, 1GB RAM DDR2, 512MB or 1GB»
PROTOCOLES	ICA 9.x, RDP 5, x11 (Linux)	ICA 10.0, RDP 6, X.11 (Linux)	For more details on Virtual PC Center, please see page 128	ICA 10.x, RDP 6	Citrix ICA 10.x, Microsoft RDP 6
PLUG-INS	Thinprint, web browser (depending on OS), VNC client	Thinprint , Web browser (depending on OS), VNC client, terminal emulation (optional)		Thinprint , Internet Explorer 7, VNC client, PDF reader, Flash player, Windows Media player, terminal emulation (optional)	Thinprint , Internet Explorer 7, VNC client, PDF reader, Flash player, Windows Media player, terminal emulation (optional)
MANAGEMENT	NEC Client Manager	NEC Client Manager		NEC Client Manager	NEC Client Manager
CONNECTIVITY	4xUSB 2.0, 1xPS2 (+ Y-cable included), 1xRJ45 1 audio In, 1 audio out	6xUSB 2.0, 1xRJ45, 1x smardcard reader (optional) 1 audio In, 1 audio out Optional : 1x parallel, 1x serial, 2xPS2		3xUSB 2.0, 1xRJ45, 1x express card 1 audio In, 1 audio out	3xUSB 2.0, 1xRJ45, 1x express card, 1x smardcard reader 1 audio In, 1 audio out
SCREEN OUTPUT	1 VGA	1 VGA, 1 DVI		1 VGA	1 VGA
NETWORK	«Integrated 10/100 Fast Ethernet Auto detection, PXE»	«Integrated 10/100/1000 Fast Ethernet Auto detection, PXE»		«Integrated 10/100 Fast Ethernet Auto detection, PXE»	«Integrated 10/100 Fast Ethernet Auto detection, PXE»
WIRELESS NETWORK	-	802.11b/g/n (optional)		802.11b/g	802.11b/g/n
WEIGHT	420g	1.2Kg		1,7 kg	2.5 kg
WARRANTY	3years SWAP D+10	3years SWAP D+10		1year PURR D+5	1year PURR D+5

THIN CLIENT REFERENCES

NEC QUOVIO range

			References
NEC QUOVIO D180			
D180 Linux	Kernel 2.6 + ICA9 + RDesktop + Firefox + Thinprint + X.11 + USB keyboard + USB optical mouse	Flash 256MB, RAM 512MB	C07NUEB-0009Z**
D180 Windows CE	Windows CE5 + ICA9 + RDP5 + IE7 + Thinprint + USB keyboard + USB optical mouse	Flash 256MB, RAM 512MB	C07NUJ9-0009Z**
NEC QUOVIO D380			
D380 Linux	Kernel 2.6 + ICA9 + RDesktop + Firefox + Thinprint + X.11 + USB keyboard + USB optical mouse	Flash 512MB, RAM 512MB	C08NASU-000AZ**
D380 Linux WiFi	Kernel 2.6 + ICA9 + RDesktop + Firefox + Thinprint + X.11 + integrated WiFi 802.11 b/g/n + USB keyboard + USB optical mouse	Flash 512MB, RAM 512MB	C08NTA8-000AZ**
D380 Windows XPe	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint + USB keyboard + USB optical mouse	Flash 512MB, RAM 512MB	C08NASF-000AZ**
D380 Windows XPe	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint +V	Flash 1GB, RAM 512MB	C08NASS-000AZ**
D380 Windows Xpe Emulation	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint + Powerterm emulation + USB keyboard + USB optical mouse	Flash 1GB, RAM 512MB	C08NL1A-000BZ**
D380 Windows Xpe WiFi	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint + Integrated WiFi 802.11 b/g/n + USB keyboard + USB optical mouse	Flash 512MB, RAM 512MB	C08NTA3-000AZ**
D380 Windows Xpe WiFi	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint + Integrated WiFi 802.11 b/g/n + USB keyboard + USB optical mouse	Flash 1GB, RAM 512MB	C08NU8Z-000AZ**
D380 Windows Xpe Smardcard	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint + integrated smardcard reader + USB keyboard + USB optical mouse	Flash 1GB, RAM 512MB	C08N1YB-000BZ**
NEC QUOVIO TCM270			
TCM270 Windows Xpe	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint + PDF Reader + Integrated WiFi 802.11 b/g + 6cells battery	Flash 512MB, RAM 512MB	depending on country code
TCM270 Windows Xpe	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint + PDF Reader + Integrated WiFi 802.11 b/g + 6cells battery	Flash 1GB, RAM 512MB	depending on country code
NEC QUOVIO TCM380			
TCM380 Windows Xpe	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint + PDF Reader + Integrated WiFi 802.11 b/g/n + 6cells battery	Flash 1GB, RAM 512MB	C09NYAN-000AZ**
TCM380 Windows Xpe	Windows Xpe + ICA10 + RDP6 + IE7 + Thinprint + PDF Reader + Integrated WiFi 802.11 b/g/n + 6cells battery	Flash 1GB, RAM 1GB	C09NYA1-000AZ**

Accessories

		D180	D380	TCM380	TCM270	References
LCD MOUNTING KIT						
LCD MOUNTING KIT	VESA 75mm and 100mm compatible	X	X			A000155800
PORT EXTENDER						
Port Extender	NEC dedicated port extender D380, 1 Serie port, 1 parallel port, 2 PS/2 ports		X			A000155800
SECURITY						
Security cable single lock	Security cable single lock, Kensington compatible (1 lock, 2 keys)	X	X	X	X	A000119300
Security cable double lock	Security cable double lock, Kensington compatible (2 locks, 2 keys)	X	X	X	X	A000122300
BATTERY						
Extended battery	Extended battery Li-ion 6cells for TCM380			X		A000156000
First battery	Extended battery Li-ion 9cells for TCM270				X	A000160300
POWER CORD						
AC adapter	AC adapter (Europe)			X	X	A000156100
AC adapter	AC adapter (GB			X	X	A000156101
TRANSPORT						
Backpack	NEC Notebook Backpack (Dark blue, Weight 800g)			X	X	A000115000
Standard case	NEC Standard Notebook case (Black, weight 1.6 kg)			X	X	A000115200
MISCELLANEAOUS						
Keyboard protection	protection for TCM380 keyboard (plastic film, against dust, liquid…)			X		A000160200
Keyboard protection	protection for TCM270 keyboard (plastic film, against dust, liquid…)				X	A000160100

NEC QUOVIO D180

A thin client offering performance and simplicity

The NEC Quovio D180 is one of the smallest thin clients in the world. It is the best choice for companies and organisations looking for an affordable IT solution, which is also secure and easy to use. Its size (35 x 140 x 120 mm) and its small weight (420 g) recommend the NEC Quovio D180 as a compact, simple and affordable terminal.

With a VIA C7 400MHz processor and a simplified connectivity, the NEC Quovio D180 offers an optimized value performance. This terminal allows the use of business applications in a highly secure environment. The local Internet browser of the NEC Quovio D180 allows a simple and secure Internet connexion.

Available with a VESA mounting kit, this terminal integrates itself perfectly in every working environment, either on the desk or behind the monitor.

KEY POINTS :

- **Extremely compact**
- **Quality at the best price**
- **Simplicity :** easily connectivity
- **Security :** no data stored locally

NEC Quovio D180 specifications

CPU	VIA C7 at 400Mhz
OPERATING SYSTEM	Linux, Windows CE
FLASH MEMORY CONFIGURATION	DOM, 256MB
RAM MEMORY CONFIGURATION	DDR2, 512MB
PROTOCOLES	ICA, RDP (depending on OS), x11 (Linux)
PLUG-INS	Thinprint, web browser (depending OS), VNC client
MANAGEMENT	NEC Client Manager
CONNECTIVITY	Front : 2 USB 2.0, 1 Line-in / Microphone, 1 Line-out / Headphones Rear : 2 USB 2.0, 1 VGA, 1 P/S2 (+ delivered with Y cable), 1RJ-45
SCREEN OUTPUT	VGA
RESOLUTION	1600 x 1200, 32 bit max
NETWORK	Integrated 10/100 Fast Ethernet Automatique detection, PXE
DIMENSIONS	35x140x120 mm (DxHxW)
WEIGHT	420g
POWER SUPPLY	External, 100-240V, 50/60hz AC
WARRANTY	Standard 3years, SWAP on site D+10
DELIVERED WITH	Vertical support, Standard USB NEC keyboard, USB Optical mouse
AVAILABLE ACCESSORIES	VESA Mounting kit

NEC QUOVIO D380

Enjoy the optimum power and comfort of use!

First Thin Client on the market to integrate an Intel processor, the Quovio D380 is a powerful, upgradeable solution. Associating a 1GHz processor and an Ethernet Gigabit LAN card, it offers an optimum use for every application (such as dual display).

The NEC Quovio D380 is the perfect terminal for advanced use. Among other features, this powerful and economic thin client offers dual display support, internal WiFi 802.11 b/g/n connexion, Windows XP Embedded compatibility, local Internet browser.

Thanks to its developed connectivity (USB, parallel and serial ports), the NEC Quovio D380 is compatible with most of the peripheral devices on the market. It also offers an integrated SmartCard reader, which is compatible with the various identifying solutions available (identification card…).

KEY POINTS :

- **Powerful :** Intel Celeron 1Ghz CPU
- **Communication :** Gigabit Ethernet, 802.11b/g/n
- **Upgreadable :** highest connectivity
- **Security :** no data stored locally

DUAL DISPLAY SUPPORT

NEC Quovio D380 specifications

CPU	INTEL Celeron M at 1Ghz
OPERATING SYSTEM	Linux, Windows XP Embedded
FLASH MEMORY CONFIGURATION	DOM, 512MB or 1GB
RAM MEMORY CONFIGURATION	DDR2, 512MB or 1GB
PROTOCOLES	ICA, RDP (depending on OS), x11 (Linux)
PLUG-INS	Thinprint , Web browser (depending on OS), VNC client, terminal emulation (optional)
MANAGEMENT	NEC Client Manager
CONNECTIVITY	Front: 2 USB 2.0, 1 Line-in / Microphone, 1 Line-Out / Headphone, 1 SmartCard Reader (optional) Rear: 4 USB 2.0, 1 VGA, 1 DVI, 1 RJ-45.
SCREEN OUTPUT	VGA, DVI
RESOLUTION	1600 x 1200, 32 bit max
NETWORK	Integrated 10/100/1000 Fast Ethernet Automatique detection, PXE
WIRELESS NETWORK	Wireless card 802.11 b/g/n (optional)
DIMENSIONS	52x230x195 mm (DxHxW)
WEIGHT	1,2 kg
POWER SUPPLY	External, 100-240V, 50/60hz AC
WARRANTY	Standard 3years, SWAP on site D+10
DELIVERED WITH	Vertical support, Standard USB NEC keyboard, USB Optical mouse
AVAILABLE ACCESSORIES	Dedicated port extender VESA Mounting kit

NEC QUOVIO TCM270

Advantages of a mobile IT solution without compromising the security of your data !

Easy to manage, deploy and use, the NEC TCM270 is the ideal terminal for enterprises looking for a highly secure and mobile IT solution. The Quovio TCM270 allies the advantages of a centralised architecture and the benefits of an ultra-mobile terminal.

The Quovio TCM270 has been conceived in order to offer you the same comfort of use anywhere and anytime. This is an ultra compact thin client, with a 12.1" wide screen and a low weight (1,7 kg). Its 4 hours autonomy, together with the wireless connectivity (WiFi 802.11 b/g, 3G+ through external module) recommends it as a perfect IT solution.

Compatible with the centralized environments (Citrix ICA, Microsoft RDP), as well as with the virtualised ones (VDI), the NEC Quovio TCM270 is completely secure against viruses and other software attacks and guarantees a complete confidentiality of data in case of robbery or loss.

KEY POINTS :

- **Ultra-mobility :** 12.1" wide screen and 1.7kg
- **Communication :** integrated 802.11b/g
- **Security :** no data stored locally

NEC Quovio TCM270 specifications

CPU	VIA C7-M ar 1.2Ghz
OPERATING SYSTEM	**Windows XP Embedded**
FLASH MEMORY CONFIGURATION	DOM, 512MB ou 1GB
RAM MEMORY CONFIGURATION	DDR2, 512MB ou 1GB
PROTOCOLES	ICA 10, RDP 6
PLUG-INS	Thinprint , Internet Explorer 7, VNC client, PDF reader, Flash player, Windows Media player, terminal emulation (optional)
MANAGEMENT	NEC Client Manager
CONNECTIVITY	Front: 1 Line-in / Microphone, 1 Line-out / Headphones Right: 3 USB 2.0, 1 VGA, express card connector Left: DC-in, security cable slot Rear: 1 RJ-45
SCREEN OUTPUT	VGA
SCREEN SIZE	12.1" WXGA TFT
RESOLUTION	1280 x 800, 32 bit max
NETWORK	Integrated 10/100 Fast Ethernet Automatique detection, PXE
WIRELESS NETWORK	Integrated wireless card 802.11 b/g 3G+ compatible thanks its Express Card slot
DIMENSIONS	297 (W) x 32 (H) x 297 (D) mm
WEIGHT	1,7 kg
POWER SUPPLY	6cells Li-ion / up to 5hours battery life
WARRANTY	Standard 1year, PURR D+5
DELIVERED WITH	AC Adapter
AVAILABLE ACCESSORIES	9 cells Li-ion battery NEC carrying case Keyboard anti-projection film

NEC QUOVIO TCM380

Perfect balance between mobility, security and comfort of use

With the NEC Quovio TCM380, NEC Computers offers you a comfortable, mobile and ultra-secure terminal. This product associates the advantages of a centralized architecture and the benefits of a mobile terminal with an optimized design.

With its 15.4" wide screen, its integrated numeric keypad and its SmartCard reader, the TCM380 offers you comfort and optimum security anywhere and anytime. Thanks to its notebook chassis, you can carry it around easily and use it freely. Thanks to a 2-battery innovating system, the NEC Quovio TCM380 brings you comfort and allows you to use it for a whole working day.

Compatible with the centralized environments (Citrix ICA, Microsoft RDP), as well as with the virtualised ones (VDI), the NEC Quovio TCM270 is completely secure against viruses and other software attacks and guarantees a complete confidentiality of data in case of robbery or loss.

INTEGRATED NUMERIC KEYPAD !

KEY POINTS :

- **optimum comfort :** integrated numeric keypad
- **Communication :** integrated 802.11b/g/n
- **More than 8 hours autonomy**
- **Integrated smard card reader**

NEC Quovio TCM380 specifications

CPU	VIA C7-M at 1.2Ghz
OPERATING SYSTEM	Windows XP Embedded
FLASH MEMORY CONFIGURATION	DOM, 1GB
RAM MEMORY CONFIGURATION	DDR2, 512MB or 1GB
PROTOCOLES	ICA 10, RDP 6
PLUG-INS	Thinprint , Internet Explorer 7, VNC client, PDF reader, Flash player, Windows Media player, terminal emulation (optional)
MANAGEMENT	NEC Client Manager
CONNECTIVITY	Right: 1 USB 2.0, 1 VGA, SmartCard reader Left: 2 USB 2.0, Express Card connector, SIM card slot, 1 Line-in/Microphone, 1 Line-out/Headphone Rear: 1 RJ-45, DC-In, security cable slot
SCREEN OUTPUT	VGA
SCREEN SIZE	15.4" TFT WXGA
RESOLUTION	1280 x 800, 32 bit max
NETWORK	Integrated 10/100 Fast Ethernet Automatique detection, PXE
WIRELESS NETWORK	Integrated wireless card 802.11 b/g/n 3G+ compatible thanks its Express Card slot
DIMENSIONS	350 (W) x 35 (H) x 245 (D) mm
WEIGHT	2,5 kg
POWER SUPPLY	1 x 6-cells Li-ion battery (standard), 2nd 6-cells battery (option) More than 8 hours autonomy with 2 6-cells batteries
WARRANTY	Standard 1year, PURR D+5
DELIVERED WITH	AC Adapter
AVAILABLE ACCESSORIES	6 cells Li-ion battery NEC carrying case Keyboard anti-projection film

THIN CLIENT OPTIONS

Description	Quovio D180	Quovio D380	Quovio TCM380	Quovio TCM270	References
LCD MBUNTING KIT					
LCD MBunting kit for D180, D380, VESA 75mm and 100mm compatible	X	X			A000155800
PORT EXTENDER					
NEC dedicated port extender D380, 1 Serie port, 1 parallel port, 2 PS/2 ports		X			A000155900
BATTERY					
Extended battery Li-ion 6cells for TCM380			X		A000156000
Extended battery Li-ion 9cells for TCM270				X	A000160300
POWER CORD					
AC adapter (Europe)			X	X	A000156100
AC adapter (GB)			X	X	A000156101
SECURITY CABLE SINGLE LOCK					
Security cable single lock, Kensington compatible (1 lock, 2 keys)	X	X	X	X	A000119300
Security cable double lock, Kensington compatible (2 locks, 2 keys)	X	X	X	X	A000122300
TRANSPORT					
NEC Notebook Backpack (Dark blue, Weight 800g)			X	X	A000115000
NEC Standard Notebook case (Black, weight 1.6 kg)			X	X	A000115200
MISCELLANEAOUS					
Protection clavier pour TCM380 (plastic)			X		A000160200
Protection clavier pour TCM270 (plastic)				X	A000160100

NEC ULTRACARE SOLUTIONS

You need security:
think of the nec ultracare services!

OUR OBJECTIVE: TO SATISFY YOU

Better Business continuity by fast interventions - TCO reduction - Return on investment lengthening

WARRANTY EXTENSIONS

STRONG ADDED VALUE SERVICES, TO ASSURE ALL YOUR REQUIREMENTS!

- To support your environment that requires a high level of availability.
- To prolong standard warranty by extending the duration and/or level of service.
- To adapt to your needs thanks to our services from most elementary to most critical.

YOU BUY A CRITICAL SOLUTION? CHOOSE THE 4HR 24/7!

- Breakdown service available after 6:00pm
- Weekend Intervention
- 24/7 Telephone Contact

PROTECTION SOLUTIONS

YOUR COLLABORATORS ARE MOBILE, PROTECT THEM!

- Oxygen Cubed: New range of products with the 1, 2 and 3 years pack.
- UltraCare Complete Protection: Theft and Damage Protection with Oxygen Cubed.
- 100% NEC Protection Solution: International Theft and Damage Protection.

ULTRACARE ONLINE : http://ultracare.nec-computers.com

REGISTER YOUR WARRANTY EXTENSIONS ON ULTRACARE ONLINE!

Efficiency and Simplicity

- On line registration
- Multiple registrations for extensions concerning materials installed at the same address
- Download Certificates of UltraCare registration
- Increased services availability
- No risk of lost coupon

UltraCare Online: The key of a successful service

- Better registration rate: Successful interventions
- Speed up the systems update: Quasi-immediate effective date of the extension

ULTRACARE SERVICES DESKTOPS & MONITORS

WARRANTY EXTENSIONS FOR POWERMATE DESKTOPS

WARRANTY EXTENSIONS : 3 YEARS, 4 YEARS & 5 YEARS

Only available for powermateS with a 3year standard warranty. Warranty Extension can only be ordered during the the first year of warranty,

Service Level	Range	Reference
Extension to 3 Years On Site, Repair Time Commitment D+1 (1) (2)	POWERMATE	RWPG3SA011A
Extension to 4 Years On Site D+1 (1) With or Without MBnitor (3)	POWERMATE	RWPG4SA010C
Extension to 4 Years On Site, Repair Time Commitment D+1 (1) (2)	POWERMATE	RWPG4SA011A
Extension to 5 Years On Site D+1 (1) With or Without MBnitor (3)	POWERMATE	RWPG5SA010C

WARRANTY EXTENSIONS : 3 YEARS, 4 YEARS & 5 YEARS

Only available for powermateS with a 3year standard warranty. Warranty Extension can only be ordered during the the first year of warranty,

Service Level	Range	Reference
Extension to 3 Years On Site D+1 (1)	iSelect	RWQG3SA010A
Extension to 4 Years On Site D+1 (1) With or Without MBnitor (3)	iSelect	RWQG4SA010A
Extension to 5 Years On Site D+1 (1) With or Without MBnitor (3)	iSelect	RWQG5SA010A

(1) National coverage
(2) The following items are not included in the RTC service: monitors, keyboard, mice, accessories, racks, peripherals or any other items which are not built into a Desktop as an internal component by NEC at the time of purchase.
(3) Only NEC Computers monitors are concerned by the waranty 'including monitor'. For NEC Display monitor (NMD-xxxxxxxx), please contact us.

ULTRACARE SERVICES NOTEBOOKS

SECURITY SOLUTIONS FOR NOTEBOOKS

Service Level	Range	Reference
Oxygen Cubed - Bundle 3 years: Theft insurance + Stoptrack + Webtracking tool (3)	All Laptop	RWO3xxxxxx*
Oxygen Cubed - Bundle 2 years : Theft insurance + Stoptrack + Webtracking tool (3)	All Laptop	RWO32Yxxxx1
Oxygen Cubed - Bundle 1 year : Theft insurance + Stoptrack + Webtracking tool (3)	All Laptop	RWO31Yxxxx1
Complete Protection Theft (**with Oxygen Cubed**) + Damage + Ext. To 3 years PURR D+5 (3) (4)	All Laptop	RBNE3ARO*AA
Complete Protection Theft (**with Oxygen Cubed**) + Damage + Ext. To 3 years On-Site D+1 (3) (4)	All Laptop	RBNG3BRO*AA
100% NEC Protection Theft & Damage + Ext. To 3 years PURR D+5 (1)(5)	All Laptop	RBNE3APXXAA
100% NEC Protection Theft & Damage + Ext. To 3 years On-Site D+1 (2)(5)	All Laptop	RBNG3BPXXAA

* = country code. 1 = UK, 2 = FR, 5 = NL, 6 = IT, 4 = SP, 10 = PT, 3 = GE.

WARRANTY EXTENSIONS FOR NOTEBOOKS

Warranty Extensions can only be ordered during the the first year of warranty, within 30 days for theTheft & Damage security solution

WARRANTY EXTENSIONS : 3 YEARS, 4 YEARS & 5 YEARS

Service Level	Range	Reference
Extension to 3 years PickUp & Return D+5, European Coverage (1)	All Laptop	RWNE3PA050A
Extension to 3 years On Site D+1 (2)	All Laptop	RWNG3SA010A
98145,452	All Laptop	RWNE4PA050A
Extension to 4 years On Site D+1 (2)	All Laptop	RWNG4SA010A
Extension to 5 years PickUp & Return D+5, European Coverage (1)	All Laptop	RWNE5PA050A
Extension to 5 years On Site D+1 (2)	All Laptop	RWNG5SA010A
Extension to 3 years International Coverage (6)		NWNW3PA0X0A

(1) France, Uk, Republic of Ireland, Netherlands, Italy, Spain, Sweden, Belgium, Switzerland, Luxembourg, Germany, Austria, Portugal, Finland, Norway, Denmark, Poland
(2) National coverage
(3) Only with a new hardware. Must be registered within 60 days
(4) Hardware support & Damage coverage by NEC Computers, Theft cover by Oxygen
(5) Complete solution cover by NEC Computers
(6) Repair commitment delay may vary according to the countries. Please contact your sales representative for more information

ULTRACARE SERVICES THIN CLIENT

QUOVIO

WARRANTY EXTENSIONS NEC ULTRACARE

Warranty Extension can be ordered only during the the first year of warranty.

DESKTOP THIN CLIENT	MBdel	Reference
Extension to 3 years On site exchange, D+1 (2)	QUOVIO D180 QUOVIO D380	RWTE3EN010A
Extension to 4 years On site exchange, D+1 (2)	QUOVIO D180 QUOVIO D380	NWTE4EN010A
Extension to 5 years On site exchange, D+1 (2)	QUOVIO D180 QUOVIO D380	NWTE5EN010A

MOBILE THIN CLIENT	MBdel	Reference
Extension to 3 years Pick-up & Return D+5, European Coverage (1)	QUOVIO TCM380 / TCM270	NWTE3PT050A
Extension to 4 years Pick-up & Return D+5, European Coverage (1)	QUOVIO TCM380 / TCM270	NWTE4PT050A
Extension to 5 years Pick-up & Return D+5, European Coverage (1)	QUOVIO TCM380 / TCM270	NWTE5PT050A
Extension to 3 years On site D+1 (2)	QUOVIO TCM380 / TCM270	NWTG3PT010A

(1) France, Uk, Republic of Ireland, Netherlands, Italy, Spain, Sweden, Belgium, Switzerland, Luxembourg, Germany, Austria, Portugal

(2) National coverage

THE BEST EFFICIENT PROTECTION AGAINST PROFESSIONAL COMPUTER THEFT

OXYGEN CUBED

WORLDWIDE ANTITHEFT SOLUTION

100% repayment in case of theft*
No Insurance excess payable.
No charge for 'wear and tear'.

ANTITHEFT MARKING

Discouraging visual protection.
Exclusive patented marking that withstands up to 400kg pulling force. In the event of pulling up, an indelible message indicates "Stolen hardware".

WEBTRACKING SOFTWARE

Identification of the material to each connection.
Material is localized thanks to the international tracking system and with the police authorities.

OXYGEN CUBED, THE 1ST TOTAL SOLUTION DEDICATED TO PROFESSIONALS

This Solution exists with coverage 1, 2 or 3 years to answer all our clients issues

* 1 year and 2 years pack: 100% repayment – 3 years pack: 100% repayment the 1st and 2nd years and 50% the 3rd year.

MANAGED ANTI-VIRUS: VIRUSSCAN ASAP

Automatic and permanent anti-virus protection for PCs and Servers

For a powerful, yet simple protection of your fix and nomad posts, NEC in partnership with McAfee proposes a fully managed anti-virus service. You no longer have to worry about anti-virus updates nor dedicate internal IT resources to maintain your PCs up-

VirusScan ASaP brings a constant security to your IT resources by automatically deleting all viruses, worms and trojans trying to infiltrate your IT environment. All updates occur automatically and in real time, therefore eliminating the risk of security

- **EASY DEPLOYMENT**

VirusScan ASaP can be centrally deployed by the administrator via an online console or alternatively activated by the user through a simple link.

- **SIMPLE MANAGEMENT OF REMOTE USERS**

Keeping nomad users up-to-date is made easy with VirusScan ASaP. Security updates are automatically downloaded from the best available source, either from a neighbour PC in the network or directly from the data centre.

- **STATISTICS AND REPORTS AVAILABLE ONLINE**

The IT administrator remains in control of his systems thanks to detailed reports accessible on the nec-online website, including statistics and status of all systems, per group or per PC.

- **PREVENTIVE ALERTS**

The administrator is immediately notified by email once a medium or high virus risk has been detected by McAfee, giving him an additional security control tool.

- **TECHNICAL SUPPORT INCLUDED**

Technical support 5 days a week throughout the duration of the subscription, no extra cost attached!

Description	Reference
Managed Anti-Virus - Boxware version	
Standard version - 12 months	
Managed VirusScan for 5 licences	RMAE12B005S
Managed VirusScan for 25 licences	RMAE12B025S
Managed VirusScan for 50 licences	RMAE12B050S
Managed VirusScan for 100 licences	RMAE12B100S
Standard version - 36 months	
Managed VirusScan for 5 licences	RMAE36B005S
Managed VirusScan for 25 licences	RMAE36B025S
Managed VirusScan for 50 licences	RMAE36B050S
Managed VirusScan for 100 licences	RMAE36B100S
Competitive Upgrade version (MSU) - 12 months	
Managed VirusScan MSU for 5 licences	RMAE12B005U
Managed VirusScan MSU for 25 licences	RMAE12B025U
Managed VirusScan MSU for 50 licences	RMAE12B050U
Managed VirusScan MSU for 100 licences	RMAE12B100U
Competitive Upgrade version (MSU) - 36 months	
Managed VirusScan MSU for 5 licences	RMAE36B005U
Managed VirusScan MSU for 25 licences	RMAE36B025U
Managed VirusScan MSU for 50 licences	RMAE36B050U
Managed VirusScan MSU for 100 licences	RMAE36B100U

NEC BIOMETRIC SOLUTIONS

ADVANCED AUTHENTICATION TECHNOLOGY FOR ENHANCED NETWORK & PC SECURITY

As businesses and organisations connect and dialogue across the world, the need for reliable enterprise-wide authentication systems becomes urgent.
While most current security systems provide only partial protection, there is a better, more efficient way to handle this challenge – Biometric technology – identifying people according to their physical characteristics.

FINGERPRINT-BASED IDENTITY MANAGEMENT

Fingerprint technology makes security based on **something you are** and no longer on **something you remeMBer**.
A fingerprint cannot be forgotten, guessed or given away as password can, making it the optimal network security solution.
Using NEC Biometric solutions, every logon attempt is authenticated to authorise employee's access to his PC, network and company applications.

SMART CARD AUTHENTICATION

AET middleware solution comes along with a **smart card and a USB smart card reader** to facilitate a two-factor authentication system. A private key is created on the smart card obliging the user to access the smart card functions via a PIN code. This solution can be further used for complemantary identification roles such as access to company's building and time recording functions.

*** Two-factor authentication**
*** Single sign-on solution**
*** Easy enrolment and deployment**
*** Support all major PKI platforms**
*** Runs on all major operating systems**
*** Compatible with all PC/SC smart card readers**
*** Fully in-line with all major protocols**

FACTORY INTEGRATION SERVICES

FACTORY INTEGRATION SERVICES : GOLD

Min 50 units/ quarter, up to 149 units/quarter

Specific pricing

Customer customized offer with First Article

Recurrent order

Hardware transition management

FOR POWERMATE DESKTOPS

Description	Reference	Notes
IMAGE DUPLICATION & CD/DVD/HDD RECOVERY		
Simple duplication - cloning of customer image - master provided by the customer	NEPWLSW0XX010	
Creation and Duplication - Cloning of Customer image	NEPWLSW000010	
Modular & multiplatform preload design	NEPWLSW000020	
CMOS Image Duplication and/or BIOS freeze	NEPWLSW000030	
Client Specific Hard Disk Drive partitioning request	NEPWLSW000040	
HDD Recovery of Client Specific Software image on system Hard Disk Drive	NEPWLSW000050	
CD-Recovery containing Customer software - dropped in system package	NEPWLSW000060	
DVD-Recovery contaiing Customer software - dropped in system package	NEPWLSW00XX60	
Master CD-recovery containing NEC standard Windows preload - dropped in system package	NEPWLSW000070	
SID Generation	NEPWLSW000080	
Special customer plateforme or network namin	NEPWLSW000090	
SYSTEM ASSET SERVICES		
B&W Chassis Asset tag containing Customer specific Static/Dynamic information	NEPWLAT000010	
Colour Chassis Asset tag containing Customer specific Static/Dynamic information	NEPWLAT000030	
STOPTRACK lable with customer info	NEPWLATXXXX10	
Standard NEC System Asset Report	NEGWLAR000010	
Customized NEC System Asset Report containing Customer specific Static/Dynamic information	NEGWLAR000020	
HARDWARE INTEGRATION		
Customization of NEC Standard Hardware Settings	NEPWLHW000010	
Integration & Settings of Non-NEC Hardware in system chassis	NEPWLHW000020	
Integration & Settings of Non-NEC Hardware dropped in System package	NEPWLHW000030	

FACTORY INTEGRATION SERVICES

FACTORY INTEGRATION SERVICES : GOLD

FOR VERSA NOTEBOOKS

Description	Reference	Notes
IMAGE DUPLICATION & CD/DVD/HDD RECOVERY		
Simple duplication - cloning of customer image - master provided by the customer	NENWLSW0XX010	
Creation and Duplication - Cloning of Customer image	98145.452	
98145.452	NENWLSW000030	
HDD Recovery of Client Specific Software image on system Hard Disk Drive	NENWLSW000050	
Restauration sur CD Rom de l'image client - livré avec le système	NENWLSW000060	
DVD-Recovery contaiing Customer software - dropped in system package	NENWLSW00XX60	
Master CD-recovery containing NEC standard Windows preload - dropped in system package	NENWLSW000070	
SYSTEM ASSET SERVICES		
B&W Chassis Asset tag containing Customer specific Static/Dynamic information	NENWLAT000010	
Colour Chassis Asset tag containing Customer specific Static/Dynamic information	NENWLAT000030	
STOPTRACK lable with customer info	NENWLATXXXX10	
Standard NEC System Asset Report	NEGWLAR000010	
Customized NEC System Asset Report containing Customer specific Static/Dynamic information	NEGWLAR000020	
HARDWARE INTEGRATION		
Integration & Settings of Non-NEC Hardware dropped in System package	NENWMHW000030	

FACTORY INTEGRATION SERVICES

LASER ETCHING

This Service offers
- A permanent marking
- Makes your logo highly visible
- Asset number & bar code can be engraved (on feasibility on PowerMate unit)
- Ultimate anti-theft marking solution
- A sample can be provided on request.

LOCATION OF THE ENGRAVING

Engraving location is defines by NEC Computers according to the hardware configuration suggested.
The size of reserved space for engraving is 64mm x 38mm
If however, you wish to define with us another location for your logo, we will study feasibility.

Small Desktops chassis :

Small Form Factor chassis :

Micro Tower chassis :

Laptop :

Prerequisite :

Your logo must be sent in a vector format (eps or ai)

Description	Reference	prix en Euro HT	Notes
NEPWLAT000060	Laser Etchning (50-149 units/ quarter)	**10**	

FACTORY INTEGRATION SERVICES

BETWEEN 20 AND 49 UNITS

Specific pricing

Client Pcs

By order

Description	Reference	price Euro HT
Custom Downgrade Software (20-49 units)	NEGEFSN000100	NC
Marquage Laser (20-49 units)	NEPWJAT000060	NC
Hardware integration (20-49 machines)	NEPWJHW000020	NC

OTHER ACCESSORIES

Description		Reference	Notes
Input Device			
NEC USB MBno MBuse Optical	USB - Mini MBuse - Optical - Dark blue - For notebook	A000099300	
Security			
Kensington Slim MicroSaver	Anti Theft Lock and Cable - Kensington Security Slot Compatible	A000062900	
Security Cable Single Lock	Anti Theft Cable - Security Slot Compatible - 1 Lock - 2 Keys	A000119300	
Security Cable Twin Lock	Anti Theft Cable - Security Slot Compatible - 2 Twin Locks - 1 set of 2 Keys - Pass Key available	A000122300	
Casing			
NEC Notebook Backpack	Black/dark Blue Nylon - Padded Protection - Weight 800 g - Notebook max. size : 290 x 430 x 40 mm	A000115000	
NEC Standard Notebook Case	Black Nylon - Padded Protection - Weight 1.6 Kg - Notebook max. size : 290 x 400 x 60 mm	A000115200	
NEC Large Notebook Case	Black Nylon - Padded Protection - Weight 1.8 Kg - Notebook max. size : 310 x 400 x 65 mm	A000115100	

ENTREPRISE COMPUTING SOLUTIONS

NEC WORKSTATION SOLUTIONS

A FULL RANGE OF HIGH PERFORMANCE WORKSTATIONS

1

INCREASED PRODUCTIVITY

- Through Latest Processor & Chipset Technologies
- Optimized Ultra Silent Operation

2

GRAPHIC PERFORMANCES

- With Professional High Performance Graphics Cards
- Product Range Coherence with NVIDIA Quadro

3

SIMPLIFIED SECURITY

- Data Reliability & Security through Integrated RAID
- Physical Chassis Security Features

NEC WORKSTATIONS

THE POWER TO CREATE

Contact : **workstations@nec-computers.com**

NEC WORKSTATION RANGE

Coming Soon

WA1320	WI1520	WA2520
Mono-Processor		Dual-Processors
AMD Athlon 64 / Phenom	Intel Core 2	AMD Opteron
4 DIMMs		8 DIMMs
Non-ECC	ECC	ECC Registered
3x SATA2	4x SATA2 / 4x SAS	
RAID 0, 1 Support	RAID 0, 1, 5 Support	
Quadro FX370, FX570, FX1700	FX370, FX570, FX1700, FX3700, FX4800	… + FX5800

WORKSTATIONS

WORKSTATIONS AT A GLANCE

	NEC WA1320	NEC WI1520	NEC WA2520
DESIGN	Micro-Tower	Tower	Tower
Rack Mount Kit	-	Opt. 6U Rack Mount Kit	Opt. 6U Rack Mount Kit
CPU(S) & CHIPSET			
Number of processors	1	1	2
Type	AMD Athlon64 AMD Athlon X2 (dual core) AMD Phenom (Triple / Quad Core)	Pentium Dual Core Core 2 Duo Core 2 Quad et Extreme Ed.	AMD Opteron quad core
L2 cache std / max / type	512 KB / 2x512KB / 3x512KB / 4x512KB	1Mo/ 2Mo/ 6Mo/ 12Mo ECC	4x 512KB ECC
Slot Type	AM2 socket	LGA 775	F socket
Hyper Transport Bus Speed / FSB	1600MHz-2Ghz	800-1333MHz	2Ghz
Chipset Type	AMD RS690G + SB690	Intel X38 + ICH9R	nVidia® MCP55P
MEMORY			
Memory Min/Max	8 GB	8 GB / 2 ways interleaved	32GB
Type	DDR2 800	DDR2 800 ECC	DDR2 800 ECC Registered
Memory slots	98145,452	98145,452	98145,452
STORAGE			
Floppy Disk Drive	1,44 Mo	1,44 MB	1,44 Mo
CD ROM/ DVD ROM drive	DVD ou DVDRW	DVD or DVDRW	DVDRW - BDRW
SATA 7200 rpm (GB)	SATA2 : 160/250/500/750	SATA2 : 160/250/500/750/1000	SATA2 : 250/500/750/1000
SATA 10000 rpm (GB)	SATA2 : 150 / 300	SATA2 : 150 / 300	SATA2 : 150 / 300
SAS 15.000 rpm (GB)	-	73/146/300	146/300/450
Internal SATA Max Capacity (GB)	3TB SATA (3x 1000)	4.0TB SATA (4x 1000)	4,0TB SATA (4x 1000)
Internal SAS Max Capacity (GB)	-	1.2TB (4x300)	1.8TB (4x450)*
RAID	opt. 0/1 SATA	opt. 0/1/5 SATA ou SAS	opt. 0/1/5 SATA ou SAS*
BAYS			
3.5" media bays : total/free	2 / 2	0 / 0	0 / 0
5.25" media bays : total/free	2 / 1	3 / 1	3 / 1
3.5" HDD	3 x 1" (c)	4 x 1" (c)	4 x 1" (c)
SLOTS Architecture	PCI	PCI	PCI
Number of Slots	4	5	5
Number & Type	2x PCI 1x PCIe 1X / 1 PCIe 16X	2x PCI 2x PCIEx X16 Gen. 2 / 1x PCIEx X1	2x PCI 2x PCIEx X16 / 1x PCIEx X8

VIDEO			
Video Controller	Opt. PCI Express 16X Card	Opt. PCI Express 16X Card	Opt. PCI Express 16X Card
NETWORK			
OnBoard LAN Controller (Mbps)	1x 1000	2x 1000	2x 1000
SECURITY			
2 Level Password	YES	YES	YES
Front Door / Intrusion Detection	-	-	YES
I/O PORTS			
USB Ports	6x USB2 (2 Front, 4 Rear)	8x USB2 (2 Front, 6 Rear)	6x USB2 (2 avant, 4 arrière)
Serial Port	1x DB9	Opt.	1x DB9
Parallal Port ECP/EPP 25 pins	1	Opt.	Opt.
e-SATA Ports	-	2	-
IEEE 1394	Opt.	2 (1 Front, 1 Rear)	1x
PS/2 Ports	2	1	2
SVGA Video Port	1x on opt. Graphic Card	1x on opt. Graphic Card	1x sur carte vidéo optionnelle
Audio Ports	3	3 + 2x SPDIF	6
Ethernet Port	RJ 45	2x RJ 45	2x RJ 45
POWER SUPPLY			
Standard PSU	250W / 350W*	1x 550W/PFC	1x 670W
FAN			
Specifications	Regulated	Regulated	Regulated
PHYSICAL SPECIFICATIONS			
Dimensions (HxLxP)	424 x 170 x 391mm	483 x 235 x 452 (mm)	483 x 235 x 452 (mm)
Weight	7-9 kg	25-35 kg	25-35 kg
Environnemental	10 à 35° C, 20 à 80% HR	10 to 35° C, 20 to 80% RH	10 to 35° C, 20 to 80% RH
KEYBOARD & MOUSE	105T, 2 boutons	105T, 2 boutons	105T, 2 boutons
SOFTWARE & OS			
Management Software (SNMP)	-	-	-
Configuration Software	ExpressBuilder	ExpressBuilder	ExpressBuilder
Cerified OS	Vista Business 32 & x64 Windows XP & x64 (Downgrade Program)	Vista Business 32 & x64 Windows XP & x64 (Downgrade Program)	Vista Business 32 & x64 Windows XP & x64 (Downgrade Program)
WARRANTY & SERVICES			
Standard Warranty	Basic (3 Years on-site D+1)	Basic (3 Years on-site D+1)	Basic (3 Years on-site D+1)
Warranty Extensions (a)	Advantage (48H RTC 5/7) Premium (24H RTC 7/7)	Advantage (48H RTC 5/7) Premium (24H RTC 7/7)	Advantage (48H RTC 5/7) Premium (24H RTC 7/7)
REGULATORY & SAFETY			
Regulatory Compliance	CE	CE	CE
ADVISED UPS (APC)	SU 1000 (a)	SU 1000 (a)	SU 1000 (a)

(a) : optional ; (b) : optional or standard ; (c) : depends of model ; (*) : Check Availability

WORKSTATIONS

NEC WA1320

The Gateway to Workstation Performance

Description	Reference	Notes

NEC WA1320 : The first step to enter into the world of Professional Workstations

Latest AMD Phenom Quad Core architecture with HyperTransport 1GHz
up to 8GB of DDR2 800 for optimal performances
Integrated RAID SATA II Controller 4 channels for security and performances
PCI Express slots for High Throughput and evolutivity
Professional Graphic Cards from nVIDIA Quadro product range
Ultra-Compact Chassis (25liters)
Low noise level
ISV Certifications

Configuration Examples : (Use M@gic to create your configurations)

AMD Athlon LE-1640

Config SATA : 1GB - 160GB SATA2 - Video FX370 256MB - lecteur DVD - 3 Years Warranty	W19NEET-000BZ**
Config SATA : 1GB - 250GB SATA2 - Video FX570 256MB - FDD - DVD RW - 3 Years Warranty	W19NEF7-000BZ**
Config SATA : 1GB - 500GB SATA2 - Video FX1700 512MB - FDD - DVD RW - 3 Years Warranty	W19NEF9-000BZ**

AMD Athlon X2 4450e

Config SATA : 1GB - 160GB SATA2 - Video FX370 256MB - FDD - lecteur DVD - 3 Years Warranty	W19NEFA-000BZ**
Config SATA : 1GB - 500GB SATA2 - Video FX570 256MB - FDD - DVD RW - 3 Years Warranty	W19NEFB-000BZ**
Config SATA : 2GB - 500GB SATA2 - Video FX1700 512MB - FDD - DVD RW - 3 Years Warranty	W19NEFC-000BZ**

AMD Athlon X2 5600+

Config SATA : 2GB - 160GB SATA2 - Video FX370 256MB - lecteur DVD - 3 Years Warranty	W19NEFE-000BZ**
Config SATA : 2GB - 250GB SATA2 - Video FX570 256MB - FDD - DVD RW - 3 Years Warranty	W19NEFF-000BZ**
Config SATA : 4GB - 750GB SATA2 - Video FX1700 512MB - FDD - DVD RW - 3 Years Warranty	W19NEFG-000BZ**

AMD Phenom Quad Core 9550

Config SATA : 2GB - 250GB SATA2 - Video FX570 256MB - DVD RW - 3 Years Warranty	W19NEFH-000BZ**
Config SATA : 4GB - 500GB SATA2 - Video FX1700 512MB - FDD - DVD RW - 3 Years Warranty	W19NEFJ-000BZ**
Config SATA : 8GB - 2x500GB RAID 0 - Video FX1700 512MB - FDD - DVD RW - 3 Years Warranty	W19NEFK-000BZ**

For the Localization add PKGNXXXXXX0**51, with ** = Country code :

01=British, 02=French, 03=German, 04=Spanish, 05=Dutch, 06=Italian, 07=Danish, 09=Swedish,10=Portuguese, 11=Swiss/French,

13=Belgian/French, 14=Belgian/Flemish, 16=Norwegian,17=Swiss/German, 22=Italian/American, 23=Euro/American, 40=Belgian/English

NEC WI1520

The Power Workstation

Description	Reference	Notes

NEC WI1520 : The Professional Workstation dedicated to power hungry applications

Powerful Core Duo architecture with 1333MHz FSB
Up to 8GB of DDR2-800 ECC for optimal performances
Integrated RAID SATA-2 or RAID SAS for data security
SATA2 or SAS hard drives for flexibiliy
PCI Express slots for High Throughput and evolutivity
Professional Graphic Cards from nVIDIA Quadro product range
ISV Certifications
Low noise level

Configuration Examples : (Use M@gic to create your configurations)

Core 2 Duo E8400 3.0/6MB/1333MHz

SATA : 1GB - 250GB SATA2 - Video FX370 256MB - FDD - DVD Rom - 3 years warranty	W17NEGJ-000BZ**
SATA : 2GB - 500GB SATA2 - Video FX570 256MB - FDD - DVD RW - 3 years warranty	W17NEGM-000BZ**
SATA : 2GB - 150GB SATA2 10Krpm - Video FX1700 512MB - FDD - DVD RW - 3 years warranty	W17NEGP-000BZ**

Core 2 Quad Q6600 2.4/8MB/1066MHz

SATA : 2GB - 250GB SATA2 - Video FX370 256MB - FDD - DVD Rom - 3 years warranty	W17NEGT-000BZ**
SATA : 2GB - 500GB SATA2 - Video FX570 256MB - FDD - DVD RW - 3 years warranty	W17N2FB-000BZ**
SATA : 4GB - 150GB SATA2 10Krpm - Video FX1700 512MB - FDD - DVD RW - 3 years warranty	W17NEGX-000BZ**

Core 2 Quad Q9550 2.83/12MB/1333MHz

SATA : 4GB - 250GB SATA2 - Video FX570 256MB - FDD - DVD RW - 3 years warranty	W17NDED-000BZ**
SATA : 8GB - 150GB SATA2 10Krpm - Video FX1700 512MB - FDD - DVD RW - 3 years warranty	98145,452
SAS : 8GB - ctrl SAS - 73GB SAS 15Krpm - Video FX1700 512MB - FDD - DVD RW - 3 years warranty	W18NEH5-000BZ**

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Carctéristiques	Quadro FX 5800	Quadro FX 4800	Quadro FX 3700	Quadro FX 1700	Quadro FX 570	Quadro FX 370	Quadro NVS 285
2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D
Memory	4GB GDDR3	1.5GB GDDR3	512MB GDDR3	512MB DDR2	256MB DDR2	256MB DDR2	128MB DDR
Memory Interface	512-bit	384-bit	256-bit	256-bit	128-bit	64-bit	64-bit
Bandwidth	102GB/sec.	76.8 GB/sec.	51.2 GB/sec	40 GB/sec	12.8 GB/sec.	6.5 GB/sec.	3.2 GB/sec.
Interface	PCI Express x16	PCI Express x16	PCI Express x16 2.0	PCI Express x16	PCI Express x16	PCI Express x16	PCI Express x16
Max. Screens Nb	2	2	2	2	2	1	-
Connectivity	2xDVI-I+DP+Stereo	DVI-I+2xDP+Stereo	DVI-I+DVI-I+Stereo	DVI-I+DVI-I+HD-OUT	DVI-I+DVI-I	DVI-I+DVI-I	2 x DVI-I/VGA
Max. Digital Resolution	3840x2400	3840x2400	3840x2400	3840x2400	3840 x 2400	3840 x 2400	1600x1200
Max. Analogic Resolution	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536	2048x1536
Perf. Primitive 3D							
Triangles per Second	300 Million	300 Million	250 Million	191 Million	137 Million	66 Million	N/A
Texels per Second/ Fill Rate	52 Billion	38.4 Billion	28 Billion	7.4 Billion	3.7 Billion	2.9 Billion	N/A
Visual Effects (TV, Films, Games...)	x	x	x	x	x	x	
3D Design (3D CAD, MCAD, DCC)	x	x	x	x	x	x	
Application DCC, NLE Compositing (Adobe, Avis, Pinnacle…)	x	x	x	x	x	x	
2D Design (2D CAD, EDA…)					x	x	x
Finance, Multi-screens							x
WA1310				x	x	x	x
WI1520	x	x	x	x	x	x	x
WA2510	x	x	x	x	x	x	x

SPECIFICATIONS OF PROFESSIONAL GRAPHIC CARDS FOR NEC WORKSTATIONS

NEC WORKSTATIONS OPTIONS

Use the M@gic Configurator to configure your
NEC Workstation System with factory-installed options

Description	WA1320	WI1520	NEC References	Notes
MEMORY (NB)				
DDR2-800 ECC SDRAM (2x 512MB, PC2-6400)		x	AMS-5410-00-00	
DDR2-800 ECC SDRAM (2x 1GB, PC2-6400)		x	98145,452	
DDR2-800 ECC SDRAM (2x 2GB, PC2-6400)		x	AMS-5440-00-00	
DDR2-800 SDRAM (2x 512MB, PC2-6400)	x		MEM-0108-N2-00	
DDR2-800 SDRAM (2x 1GB, PC2-6400)	x		MEM-0208-N2-00	
DDR2-800 SDRAM (2x 2GB, PC2-6400)	x		MEM-0408-N2-00	
STORAGE CONTROLLER				
SAS				
LSI Megaraid SAS 8708EM2 RAID Controller PCI-Express X8 (128MB cache, RAID0,1)		x	AIF-0693-00-B0	
LSI Megaraid SAS 8708EM2 RAID Ctrler PCI-E X8 (128MB cache + Upgrade RAID kit, RAID0,1,5,6,10,50)		x	AIF-0693-00-00	
HARD DISK DRIVES				
Serial-ATA 2 - 7200rpm				
80GB SATA2 HDD (7200rpm, 1")			ADH-5807-00-00	
160GB SATA2 HDD (7200rpm, 1")	x	x	ADH-5167-00-00	
250GB SATA2 HDD (7200rpm, 1")	x	x	ADH-5257-00-00	
500GB SATA2 HDD (7200rpm, 1")	x	x	ADH-5507-00-00	
750GB SATA2 HDD (7200rpm, 1")	x	x	ADH-5757-00-00	
1000GB SATA2 HDD (7200 rpm, 1")		x	HDD-1T72-T3-03	
150GB HDD SATA2 (10 Ktpm, 1")	x	x	HDD-1510-T3-00	
300Go HDD SATA2 (10 Ktpm, 1")	x	x	HDD-3010-T3-00	
SAS fix 15Krpm				
73GB SAS (15 Ktpm, 1")		x	BDH-2797-00-00	
146GB SATA2 (15 Ktpm, 1")		x	BDH-2497-00-00	
300GB SAS (15 Ktpm, 1")		x	BDH-2397-00-00	
MULTIMEDIA EXTENSIONS				
nVIDIA Quadro NVS285 (128MB DDR, ATX, VGA/DVI, PCI-Express 16X)	x	x	AVI-0144-00-00	
NVIDIA® Quadro FX 370 (256MB G-DDR2, 1x Dual-Link DVI-I + 1x Single-Link DVI-I, PCI-Express X16)	x	x	AVI-0168-00-00	
NVIDIA® Quadro FX 570 (256MB G-DDR2, 2x Dual-Link DVI-I, PCI-Express X16)	x	x	AVI-0165-00-00	
NVIDIA® Quadro FX 1700 (512MB G-DDR2, 2x Dual-Link DVI-I + 9-pin HDTV Out, PCI-Express X16)	x	x	AVI-0166-00-00	
nVIDIA Quadro FX 3700 (512MB DDR-3, SS ATX, DVI-DL + DVI-SL + ST, PCI-Express X16 2.0)		x	VID-3700-FX-00	
nVIDIA® Quadro FX 4600 (768MB G-DDR3 384-bit, 2x Dual-Link DVI-I + 3-pin Stereo Mini DIN, PCI-Express X16)		x	AVI-0162-00-00	
nVIDIA® Quadro FX 5600 (1.5GB G-DDR3 384-bit, 2x Dual-Link DVI-I + 3-pin Stereo Mini DIN, PCI-Express X16)		x	AVI-0163-00-00	
Carte Controleur IEEE1394 Firewire 3 connecteurs (2 ext., 1 int.)	x		AIF-0114-00-00	
MICROSOFT SOFTWARES FACTORY PRELOADS (NB)				
Preloads for Entreprise Computing Workstation Series				
Preload Microsoft Vista Business	x	x	Factory (1)	
Preload Microsoft Windows Vista Business 64bit	x	x	Factory (1)	

(NB) : Factory preloads can only be commanded with a Workstation Series

***(1) Country Code/Pre-load language** :*

02,11,13, 50= French - 03,17= German - 04= Spanish - 06= Italian - 1,05,07,09,10,14,16,21,22,23,29,40,42= English

OPTIONS
for Discontinued Workstations

Description	TW100	WA1310	WI1510	TM800 WS	WA2500	WA2510	NEC References	Notes
PROCESSORS								
Opteron								
Kit Opteron 244 1,8GHz / 1MB / 1000					x		APC-5244-1C-00	
Kit Opteron 246 2,0GHz / 1MB / 1000					x		APC-5246-1C-00	
Kit Opteron 248 2,2GHz / 1MB / 1000					x		APC-5248-1C-00	
Kit Opteron 252 2,6GHz / 1MB / 1000					x		APC-5252-1C-00	
Kit Opteron 265 1,8GHz / 2x 1MB / 1000 (Dual Core)					x		APC-5265-1C-00	
Kit Opteron 275 2,2GHz / 2x 1MB / 1000 (Dual Core)					x		APC-5275-1C-00	
Kit Opteron 280 2,4GHz / 2x 1MB / 1000 (Dual Core)					x		APC-5280-1C-01	
Kit Opteron 2212 2GHz / 2x 1MB / 1000 (Dual Core) Socket F						x	APC-2212-1C-00	
Kit Opteron 2214 2,2GHz / 2x 1MB / 1000 (Dual Core) Socket F						x	APC-2214-1C-00	
Kit Opteron 2218 2,6GHz / 2x 1MB / 1000 (Dual Core) Socket F						x	APC-2218-1C-00	
Kit Opteron 2350 2,0GHz / 4x 512KB L2 + 2MB L3 /(Quad Core)						x	CPU-2350-0A-00	
Kit Opteron 2354 2,2GHz / 4x 512KB L2 + 2MB L3 /(Quad Core)						x	CPU-2354-0A-00	
MEMORY (NB)								
DDR2-533 Non ECC SDRAM (1x 512MB, PC2-4300)		x					AMS-4607-00-00	
DDR2-667 Non ECC SDRAM (1x 512MB, PC2-5300)		x					AMS-4805-00-00	
DDR2-533 Non ECC SDRAM (1x 1GB, PC2-4300)		x					AMS-4612-00-00	
DDR2-667 Non ECC SDRAM (1x 1GB, PC2-5300)		x					AMS-4810-00-00	
DDR2-667 ECC SDRAM (1x 512MB, PC2-5300)			x				AMS-4808-00-00	
DDR2-667 ECC SDRAM (1x 1GB, PC2-5300)			x				AMS-4814-00-00	
DDR2-667 ECC SDRAM (1x 2GB, PC2-5300)			x				AMS-4824-00-00	
SDRAM DDR400 ECC unbuffered : 512MB (2x256MB)					x		AMS-3805-00-00	
SDRAM DDR400 ECC unbuffered : 1GB (2x512MB)					x		AMS-3810-00-00	
SDRAM DDR400 ECC unbuffered : 2GB (2x1GB)					x		AMS-3820-00-00	
SDRAM DDR400 ECC unbuffered : 4GB (2x2GB)					x		AMS-3840-00-00	
SDRAM DDR2-533 ECC unbuffered : 256MB (1x256MB)				x			AMS-4602-00-00	
SDRAM DDR2-533 ECC unbuffered : 512MB (1x512MB)				x			AMS-4605-00-00	
SDRAM DDR2-533 ECC unbuffered : 1GB (1x1GB)				x			AMS-4610-00-00	
SDRAM DDR400 unbuffered : 256MB (1x256MB)	x						AME-3256-00-00	
SDRAM DDR400 unbuffered : 512MB (1x512MB)	x						AME-3512-00-00	
SDRAM DDR400 unbuffered : 1GB (1x1GB)	x						AME-3010-00-00	
SDRAM DDR2-667 ECC Registered : 2GB (2x1GB)						x	AMS-4823-00-00	
SDRAM DDR2-667 ECC Registered : 4GB (2x2GB)						x	AMS-5340-00-00	
SDRAM DDR2-667 ECC Registered : 8GB (2x4GB)						x	AMS-5380-00-00	
STORAGE CONTROLLER								
RAID SATA Controller								
Promise FastTrak S4100 SATA 4-Ch RAID Controller PCI 32-bit	x			x	x		AIF-0675-00-00	
SCSI Controller								
PCI 64 bits Controller Ultra160 SCSI mono-channel (internal : 68pins U160 ; external : 68pins U160 VHD, Adaptec 29160)	x			x	x		AIF-0594-00-00	
PCI 64 bits Controller Ultra320 SCSI mono-channel (29320LP:internal : 68pins U320 ; external : 68pins U320 VHD)	x	x	x		x		AIF-0597-00-00	
RAID Controller Ultra320 mono-channel (PCI 64 bits low profile)								
SecuRAID 114 : Low profile RAID PCI 64 bits Ultra320 SCSI mono-channel (0,1,5,10, 50), 64MB cache, with drivers and documentation	x	x	x	x	x		AIF-0687-00-64	
Batterie Backup for AIF-0687			x	x	x		APM-0687-00-00	

OPTIONS
for Discontinued Workstations

Description	TW100	WA1310	WI1510	TM800 WS	WA2500	WA2510	NEC References	Notes
HARD DISK DRIVES								
Serial-ATA 2 - 7200rpm								
80GB SATA2 HDD (7200rpm, 1")	x	x	x	x	x		ADH-5802-00-00	
160GB SATA2 HDD (7200rpm, 1")	x	x	x	x	x		ADH-5162-00-00	
250GB SATA2 HDD (7200rpm, 1")	x	x	x	x	x		ADH-5252-00-00	
500GB SATA2 HDD (7200rpm, 1")	x	x	x	x	x		ADH-5502-00-00	
750GB SATA2 (7,2 Ktpm, 1")			x				ADH-5757-00-00	
Serial-ATA 2 - 7200rpm								
80GB SATA2 HDD (7200rpm, 1")						x	ADH-5807-00-00	
160GB SATA2 HDD (7200rpm, 1")						x	ADH-5167-00-00	
250GB SATA2 HDD (7200rpm, 1")						x	ADH-5257-00-00	
500GB SATA2 HDD (7200rpm, 1")						x	ADH-5507-00-00	
750GB SATA2 HDD (7200rpm, 1")						x	ADH-5757-00-00	
1000GB SATA2 HDD (7200 rpm, 1")						x	HDD-1T72-T3-03	
150GB HDD SATA2 (10 Ktpm, 1")						x	HDD-1510-T3-00	
300Go HDD SATA2 (10 Ktpm, 1")						x	HDD-3010-T3-00	
SAS fix 15Krpm								
73GB SAS (15 Ktpm, 1")						x	BDH-2797-00-00	
146GB SATA2 (15 Ktpm, 1")						x	BDH-2497-00-00	
300GB SAS (15 Ktpm, 1")						x	BDH-2397-00-00	
SCSI fix 10Krpm (68 pins)								
300GB Ultra 320 SCSI HDD (1")		x	x	x	x		BDH-1341-00-00	
73GB Ultra 320 SCSI HDD (1")	x	x	x	x	x		BDH-1741-00-17	
146GB Ultra 320 SCSI HDD (1")	x	x	x	x	x		BDH-1141-00-17	
SCSI Hot-Plug 10Krpm (80 pins)								
Hot Plug 73GB U320 SCSI (10Krpm, 1") (2)	x			x	x		BDH-1721-00-17	
Hot Plug 146GB U320 SCSI (10Krpm, 1") (2)	x			x	x		BDH-1121-00-17	
Hot Plug 300GB U320 SCSI (10Krpm, 1") (2)	x			x	x		BDH-1322-00-00	
MULTIMEDIA EXTENSIONS								
nVIDIA Quadro NVS285 (128MB DDR, ATX, VGA/DVI, PCI-Express 16X)	x	x	x	x	x		AVI-0144-00-00	
nVIDIA Quadro FX540 (128MB-DDR ATX VGA/DVI PCIe-16x)	x			x	x		AVI-0139-00-00	
nVIDIA Quadro FX560 (128MB-DDR ATX VGA/DVI PCIe-16x)	x		x	x	x		AVI-0153-00-00	
nVIDIA Quadro FX 1400 (128MB DDR, SS ATX, DVI-SL + DVI-SL + ST, PCI-Express 16X)	x			x	x		AVI-0141-00-00	
NVIDIA® Quadro FX 370 (256MB G-DDR2, 1x Dual-Link DVI-I + 1x Single-Link DVI-I, PCI-Express X16)		x	x			x	AVI-0168-00-00	
NVIDIA® Quadro FX 570 (256MB G-DDR2, 2x Dual-Link DVI-I, PCI-Express X16)		x	x			x	AVI-0165-00-00	
NVIDIA® Quadro FX 1700 (512MB G-DDR2, 2x Dual-Link DVI-I + 9-pin HDTV Out, PCI-Express X16)		x	x			x	AVI-0166-00-00	
nVIDIA Quadro FX 1500 (256MB DDR, SS ATX, DVI-SL + DVI-SL + ST, PCI-Express 16X)	x		x	x	x		AVI-0151-00-00	
nVIDIA Quadro FX 3450 (256MB DDR-3, SS ATX, DVI-DL + DVI-SL + ST, PCI-Express 16X)	x			x	x		AVI-0143-00-00	
nVIDIA Quadro FX 3500 (256MB DDR-3, SS ATX, DVI-DL + DVI-SL + ST, PCI-Express 16X)	x		x	x	x		AVI-0152-00-00	
nVIDIA Quadro FX 4500 (512MB GDDR-3, SS ATX, DVI-DL + DVI-SL + ST, PCI-Express 16X)					x		AVI-0145-00-00	
nVIDIA Quadro FX 5500 (1GB GDDR-2, SS ATX, DVI-DL + DVI-SL + ST, PCI-Express 16X)					x		AVI-0157-00-00	
nVIDIA® Quadro FX 4600 (768MB G-DDR3 384-bit, 2x Dual-Link DVI-I + 3-pin Stereo Mini DIN, PCI-Express X16)			x			x	AVI-0162-00-00	
nVIDIA® Quadro FX 5600 (1.5GB G-DDR3 384-bit, 2x Dual-Link DVI-I + 3-pin Stereo Mini DIN, PCI-Express X16)			x			x	AVI-0163-00-00	

NEC ENTERPRISE COMPUTING SERVER SOLUTIONS

Servers Solutions
YOU CAN ALWAYS DEPEND ON

NEC SYSTEM AREA MANAGER

A powerful asset management solution

The Power of a Single Management Interface to manage the Complexity of the System Area Network

A simple, open and unified administration solution for all enterprise infrastructures thus optimizing their overall IT budget.

A software management tool that enable businesses to take greater control over their IT assets, reducing the total cost of ownership and improving levels of service.

CARACTÉRISTIQUES PRINCIPALES :

- Asset Discovery and Monitoring
- Remote Keyboard Video Mouse Control
- Remote Out of Band Management (IPMI/AMT)
- Power Management
- Asset change tracking, alerting and reporting
- RAID Storage Monitoring and Configuration
- Utilization & Performance Monitoring
- Configurable Alerting Email/SMS/Pager/SNMP
- Enterprise Framework Integration (SNMP)
- Software and patch deployment

CLIENT LICENCES (DESKTOPS / NOTEBOOKS)	
NEC System Area Manager licence for 1 client (Desktop/Notebooks)	SAM-0001-0D-00
NEC System Area Manager licence for 5 clients (Desktop/Notebooks)	SAM-0005-0D-00
NEC System Area Manager licence for 10 clients (Desktop/Notebooks)	SAM-0010-0D-00
NEC System Area Manager licence for 20 clients (Desktop/Notebooks)	SAM-0020-0D-00
NEC System Area Manager licence for 50 clients (Desktop/Notebooks)	SAM-0050-0D-00
NEC System Area Manager licence for 100 clients (Desktop/Notebooks)	SAM-0100-0D-00

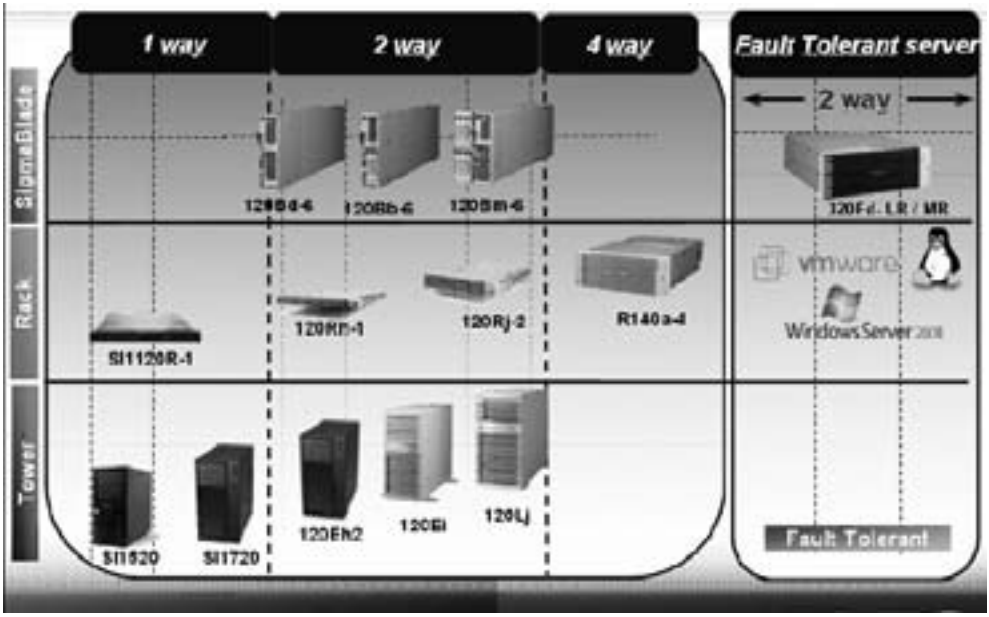
SERVER LICENCES (Entry servers and 120Eh-2)*	
NEC System Area Manager licence for 1 server	SAM-0001-0S-00
NEC System Area Manager licence for 5 servers	SAM-0005-0S-00
NEC System Area Manager licence for 10 servers	SAM-0010-0S-00
NEC System Area Manager licence for 20 servers	SAM-0020-0S-00

*Available on Express5800 servers

THE NEW NEC SERVERS RANGE

From file server to virtualisation

PERFORMANCE, SIMPLICITY, SECURITY, ENERGY PERFORMANCE AND IMPROVED ADMINISTRATION COMBINED TO REDUCE THE COMPLEXITY OF YOUR IT ENVIRONMENTS



OPTIMIZE YOUR SOLUTION
with the NEC Enterprise UltraCare offer!
See UltraCare section p xxx

RANGE MAJOR BENEFITS

MONO-PROCESSORS (SI1520, SI1720, SI1120R-1)

- **Simplicity:**a common motherboard with a choice of three chassis types.
- **Security:**The NEC SI1720 has 6 hot-swap SAS/SATA hard disks, giving a total of 6TB, and a redundant power supply.
- **Storage capacity:**The NEC SI1520 offers 4 SAS/SATA hard disks and 4 x 5.25" bays which can hold additional backup devices, for example tape (GoVault, DAT 72 USB, DAT 160 USB, DLT-V4 ranges).
- **Compactness:** The NEC SI1120R-1 takes the form of a 1U rack server compatible with the Telecom format and less than 20» deep.
- **Comfort**: Offered with NEC System Area Manager, a new solution for simple, open and unified administration of a company's entire infrastructure.
- **Competitiveness:** configuration from 639€(excl. VAT).

DUAL-PROCESSORS (120RH-1, 120RJ-2, 120EH2, 120EI, 120LJ)

Key elements common to all models to support you as your infrastructure develops

• Improve your performance
With the second generation of Intel® Xeon processors, either dual (Intel® Xeon 5200) or quad core (Intel® Xeon 5400). Thanks to their 45nm technology, these processors deliver 25% more performance for 40% less power consumption compared to the previous version.

• Manage your RAID solutions
All the servers share a new powerful, affordable, unified RAID secure data storage solution: a single controller, included in the server motherboards, offers RAID 0, 1, 5 or 6, 128Mb or 256Mb cache, with or without backup battery, on SAS or SATA disks simultaneously, either 2.5 or 3.5 inch.

• Secure your data
With a new module, TPM 1.2 (Trusted Platform Module) as standard, a cryptographic system allows users to increase the security of their data. This TPM 1.2 solution can be activated and deactivated on request.

• Optimise and control your energy consumption
Thanks to the inclusion of a real-time energy supply control module as standard. This "Power Control" module allows administrators to monitor and analyse their machines' electricity consumption remotely.

• Manage the administration of your servers
Each NEC Express5800 servers is delivered as standard with a complete remote management solution. This solution generates maximum productivity levels and allows technical teams to limit callouts, thereby reducing support and administration costs.

• Open, flexible NEC servers
NEC Express5800 servers are certified for the following environments: Microsoft® Windows 2008 Server, Microsoft® Windows 2003 Server, VMware and Redhat. They have also been tested for Mandriva, Fedora and Debian environments.

ENTERPRISE TOWER SERVERS

	SI1520	SI1720	120Eh2	120Ei	120Lj
	1-Way		2-Way		
	Xeon UP Dual/Quad Core 3100 & 3300 series		Xeon DP Dual/Quad Core 5100 & 5300 series	Xeon DP Dual/Quad Core 5200 & 5400 series	Xeon DP Dual/Quad Core 5200 & 5400 series
	4 DIMMs		8 DIMMs		12 DIMMs
	SATA/SAS 3,5"		SATA/SAS 3,5"	SATA/SAS 3,5" SAS 2,5" SATA/SAS 3,5" SAS 2,5"	
	Disk Array RAID Support				
	HotSwap HDD Support				
	Redundant HotSwap Power Supplies				
	Redundant Fans				HotSwap Redundant Fans
	ESMPRO Agent NEC System Area Manager «Microsoft System Center Essentials» compatible			ESMPRO DianaScope Management Suite ExpressScope Engine 2 Remote Management Remote KVM over IP and Remote Media	

SERVER & STORAGE SOLUTIONS

ENTERPRISE TOWER SERVERS - AT A GLANCE

	NEC SI1520	NEC SI1720
DESIGN		
Form factor	Mini Tower or Optional 5U rack mount kit	Mini Tower or Optional 6U rack mount kit
PROCESSOR		
Number of processors	1	1
Type	Quad-Core Intel® Xeon® Processor (3300 series) Dual-Core Intel® Xeon® Processor (3100 series) Intel® Pentium® D processor (2000 series)	Quad-Core Intel® Xeon® Processor (3300 series) Dual-Core Intel® Xeon® Processor(3100 series) Intel® Pentium® D processor (2000 series)
Slot type	LGA 775	LGA 775
Embedded L1 cache	-	-
L2 cache std / max	1MB / 2x6MB	1MB / 2x6MB
L3 cache	-	-
Processor Front Side Bus speed	800MHz/1333Mhz	800MHz/1333Mhz
ARCHITECTURE		
Chipset	Intel® 3210 + ICH9R	Intel® 3210 + ICH9R
MEMORY		
Memory Min/Max	1MB / 8GB	1MB / 8GB
Type	DDR2 800 ECC SDRAM	DDR2 800 ECC SDRAM
Memory slots	4 DIMM	4 DIMM
I/O SLOTS		
Total Slot	5 PCI PCI EXPRESS™ x8 : 2 PCI EXPRESS™ x4 : 1 PCI 32bit 5V 33Mhz : 2	5 PCI PCI EXPRESS™ x8 : 2 PCI EXPRESS™ x4 : 1 PCI 32bit 5V 33Mhz : 2
Bus slots free	2 PCI + 3 PCI express	3 PCI + 2 PCI Express
MEDIA & STORAGE		
CD ROM/ DVD ROM drive	Optional : DVD Writer R9 IDE 2.4X 1.6" DVD Drive IDE 16X48X 1.6"	Optional : DVD Writer R9 IDE 2.4X 1.6" DVD Drive IDE 16X48X 1.6"
Floppy Disk Drive	Optional : external USB or internal FDD 3.5" 1.44MB	Optional : external USB or internal FDD 3.5" 1.44MB
Hard Disk Drives SATA-2 7200 rpm	160/250/500G/750GB/1TB	160/250/500G/750GB/1TB HotSwap
Hard Disk Drives SATA 10000 rpm	-	-
Hard Disk Drives SCSI U320 10Krpm	-	-
Hard Disk Drives SCSI U320 15Krpm	-	-
Hard Disk Drives SAS 15Krpm	73/146/300/450GB	73/146/300/450GB HotSwap
Standard HDD and Media controllers	On-board : SATA2 6-channels Optional : SCSI U320 Adaptec 29320LPE 1-Channel Controller PCI Express X1	On-board : SATA2 6-channels Optional : SCSI U320 Adaptec 29320LPE 1-Channel Controller PCI Express X1
RAID controller	On-board : SATA2 SW RAID 0, 1, 0+1, 5 Optional : Megaraid SAS 8708EM2 (128/256MB cache) Battery Backup Unit	Optional : Megaraid SAS 8708EM2 (128/256MB cache) Battery Backup Units Support : RAID 0,1,5,6
Maximum Internal Storage capacity	SATA2 : 4TB (1TB x4) - SAS : 1.8TB (450GB x4)	SATA2 : 6TB (1TB x6) - SAS: 2.7TB (450GB x6)
MEDIA BAYS		
5.25" Media bays (total / free)	5.25" x4	5.25" x2
3.5" Media bays (total / free)	3.5" x1	3.5" x1
3.5" Non-Hot Swap HDD bays	4 x1" (fixed)	3.5" 6 x1"
3.5" Hot swap HDD bays	-	3.5" 6 x1"
VIDEO		
Video controller	Embedded	Embedded
Video memory / type	ATI ES1000 video / 32MB VRAM	ATI ES1000 video / 32MB VRAM

ENTERPRISE TOWER SERVERS - AT A GLANCE

	NEC SI1520	NEC SI1720
NETWORK		
Network interface controller	2 Gigabit Ethernet with teaming and load balancing support	2 Gigabit Ethernet with teaming and load balancing support
SECURITY		
2 level passwords	Yes	Yes
Front door / Intrusion protection	-	-
I/O PORTS		
USB ports	USB2.0 x5 (2x Front + 2x Rear + 1x Internal)	USB2.0 x5 (2x Front + 2x Rear + 1x Internal)
Serial port	Serial x1 + Optional 2x serial port PCI card	Serial x1 + 1x serial port PCI card
Parallel port	Optional : 1x parallel (ECP/EPP 25 pin)	Optional : 1x parallel (ECP/EPP 25 pin)
Mouse / keyboard port	Keyboard x1, Mouse x1	Keyboard x1, Mouse x1
SVGA video port	VGA video x1	VGA video x1
External SCSI connector	Optional : 1x 68p VHD	Optional : 1x 68p VHD
System Management	-	Embedded IPMI 2.0 Management Controller
Ethernet port	RJ-45 x2	RJ45 x2
Audio ports	-	-
POWER SUPPLY		
Power Supply Unit	400W w/ PFC	Fixed PSU : 550W
Hot-Plug PSU option	-	Optional Redundant HotSwap PSU : 650W
Number of Power Supplies	1 fixed	1 fixed or 2 redundant
Dissipation (max)	1365 BTU per Hour	1877 BTU per hour (fixed PSU) 2218 BTU per hour (HotSwap PSU)
VENTILATION		
Fan specifications	2 fixed	Fixed
PHYSICAL SPECIFICATIONS		
Size (HxWxD)	465H x 425W x 198D mm	483H x 452W x 236D (mm)
Weight	11-15Kg	25 - 35Kg
Operating constraints	10 to 35° C, 20 to 80% RH	10 to 35° C, 20 to 80% RH
OS & SOFTWARE		
Management software	Standard : « NEC System Area Agent » Optional : - « NEC System Area Manager » - "Microsoft System Center Essentials Suite" - ESMPRO Generic Agent	Standard : « NEC System Area Agent » Optional : - « NEC System Area Manager » - "Microsoft System Center Essentials Suite" - ESMPRO Generic Agent
Install & Configuration software	ExpressBuilder	ExpressBuilder
Software certification	Windows Server™ 2008 Windows Server™ 2003 R2 SP2 (x64, x86) Red Hat® Linux™ EL 4.5 and EL 5.1 (*1)	Windows Server™ 2008 Windows Server™ 2003 R2 SP2 (x64, x86) Red Hat® Linux™ EL 4.5 and EL 5.1 (*1)
Additional tested OS (*2)	Fedora - Debian - Mandriva CS 4.0 - Novell Suse SLES 10 (*1)	Fedora - Debian - Mandriva CS 4.0 - Novell Suse SLES 10 (*1)
WARRANTY		
Standard warranty	1 year on-site NBD	1 year on-site NBD
NEC ULTRACARE SERVICES		
Warranty Extensions	On site intervention D+1 8*5 (Basic) Intervention under 4H 8*5 (Advantage) Repair Time Commitment (RTC) H+6 24*7 (Premium)	On site intervention D+1 8*5 (Basic) Intervention under 4H 8*5 (Advantage) Repair Time Commitment (RTC) H+6 24*7 (Premium)
Value Added Services	Professional services (cf heading Enterprise UltraCare offer)	Professional services (cf heading Enterprise UltraCare offer)
REGULATORY & SAFETY		
Regulatory compliance	CE	CE
RECOMMENDED UPS		
	Optional : SU1000 230V 1000VA SU750I 230V 750VA USB	Optional : SU1000 230V 1000VA SU750I 230V 750VA USB

(*1) Please contact us to get Linux drivers that are not included in distribution - (*2) Contact us to get latest test report

ENTERPRISE TOWER SERVERS - AT A GLANCE

	EXPRESS5800/120Eh2	EXPRESS5800/120Ei
DESIGN		
Form factor	Mini Tower or Optional 6U Rack Mount Kit	Mini Tower or Optional 6U Rack Mount Kit
PROCESSOR		
Number of processors	2	2
Type	Quad-Core Intel® Xeon® 5400 series (up to 3.16GHz/1333MHz FSB/2x6MB L2 cache) Dual-Core Intel® Xeon® Processor 5200 series (up to 3.3GHz/1333MHz FSB/6MB L2 cache)	Quad-Core Intel® Xeon® 5400 series (up to 3.16GHz/1333MHz FSB/2x6MB L2 cache) Dual-Core Intel® Xeon® Processor 5200 series (up to 3.3GHz/1333MHz FSB/6MB L2 cache)
Slot type	LGA771	LGA771
Embedded L1 cache		
L2 cache std / max / type	6MB / 2x 6MB	6MB / 2x 6MB
L3 cache	-	-
Processor Front Side Bus speed	1066/1333 MHz	1066/1333 MHz
ARCHITECTURE		
Chipset	Intel 5000V + ESB2	Intel 5000V + Intel® 6321(ESB2E) + ServerEngines Pilot2 TPM 1.2 for enhanced security
I2O Ready		
MEMORY		
Memory Min/Max	1GB / 16GB	2GB / 32GB
Type	DDR2 667 FBD DIMMs - ECC, Chipkill, on-line sparing	DDR2 667 FBD DIMMs - ECC, Chipkill, on-line sparing
Memory slots	8 DIMM	8 DIMM
I/O SLOTS		
Total slots	5 slots PCI EXPRESS™ x4 : 2 (x8 Slots) 64bit/133MHz PCI-X : 2 (3.3V) 32bit/33MHz PCI: 1 (5V)	5 slots PCI EXPRESS™ : 3 1@X8 + 1@X4(*1) + 1@X1 (PCIex X8 mecanical slots) 64bit/100MHz PCI-X : 1 (3.3V) - 32bit/33MHz PCI : 1 (5V)
Bus slots free	3 PCI + 2 PCI Express	2 PCI + 3 PCI Express
MEDIA & STORAGE		
CD ROM/ DVD ROM drive	DVD Writer R9 IDE 2.4X 1.6" - DVD Drive IDE 16X48X 1.6"	DVD Writer R9 IDE 2.4X 1.6" - DVD Drive IDE 16X48X 1.6"
Floppy Disk Drive	Optional 1.44MB external USB FDD	Optional 1.44MB external USB FDD
Hard Disk Drives SATA-2 7200 rpm	160/250/500/750GB/1TB HotSwap	160/250/500/1TB HotSwap
Hard Disk Drives SATA-2 10000 rpm		-
Hard Disk Drives SCSI U320 10Krpm	-	-
Hard Disk Drives SCSI U320 15Krpm	-	-
Hard Disk Drives SAS 15Krpm	73/146/300/450GB HotSwap	36/73GB HotSwap in 2,5" 73/146/300GB HotSwap in 3,5"
Hard Disk Drives SAS 10Krpm		73/146/300GB HotSwap in 2,5"
Standard HDD and Media controllers	6x SATA-2+ 1xEIDE on board	
RAID controller	SATA2 : On-board 6 Ports w/RAID 0, 1,10. - Optional RAID 5 SAS/SATA2 :Optional 8-ch RAID Controller (128/256MB cache) supporting RAID 0,1,5,6,10 and Battery Backup Unit SATA Promise EX8350 - SCSI LSI 320-1	SAS : LSI SAS 8480E RAID PCIex x8 controller (128MB or 256MB cache) supporting RAID 0,1,5,6,10,50 LSI SAS 8880EM2 RAID PCI-Express X8 8-Ch controller (External, 512MB Cache) supporting RAID 0, 1, 5, 6, 10, 50 Optional : Battery Backup Unit SAS/SATA2 :Optional : LSI 8708EM2 RAID 8-ch controller (128MB or 256MB cache) supporting RAID 0,1,5,6,10 with Battery Backup Unit
Maximum Internal Storage capacity	SATA2: 6TB (1TB x6) 7,2 tpm SAS: 2.7TB (450GB x6) 15 tpm	SATA2 : 4TB (1TB x4) 7,2 tpm SAS 10tpm 2,5": 2.4TB (300GB x8) SAS 15tpm 2,5": 584GB (73GB x8) - SAS 15tpm 3,5": 1.2TB (300GB x4)
MEDIA BAYS		
5.25" Media bays (total / free)	5.25" x2	5.25" x3
3.5" Media bays (total / free)	3.5" x1	3.5" x1
3, 5" or 2.5" Non-Hot Swap HDD bays	3,5" 6x 1"	-
3, 5" or 2.5" Hot Swap HDD bays	3,5" 6x 1"	2,5" 8 x1
VIDEO		
Video controller	Embedded	Embedded
Video memory / type	ATI ES1000 SVGA / 16MB VRAM	ATI ES1000 SVGA / 8MB VRAM

ENTERPRISE TOWER SERVERS - AT A GLANCE

	EXPRESS5800/120Eh2	EXPRESS5800/120Ei
NETWORK		
Network interface controller	Embedded Dual Gigabit Ethernet w/ WOL (1000BASE-T x 2)	Embedded Dual Gigabit Ethernet w/ WOL (1000BASE-T x 2) (Intel 82563EB) + Dedicated Remote Management Port (100BASE-T x1)
SECURITY		
2 level passwords	Yes	Yes
Front door / Intrusion protection	Yes/ Yes	Yes/ Yes
I/O PORTS		
USB ports	USB2.0 x4 (2x Front + 2x Rear)	USB2.0 x6 (2x Front + 2x Rear+ 2x Internal)
Serial port	serial x1 (DB9)	Serial x1
Parallel port	-	-
Mouse / keyboard port	Keyboard x1, Mouse x1	Keyboard x1, Mouse x1
SVGA video port	SVGA Video x1	SVGA Video x1
External SCSI connector	Optional 1x Connector 68 pin VHD	Optional 1x Connector 68 pin VHD (SCSI Port)
System Management	Integrated Server Management IPMI 2.0	Remote Management Port (100BASE-T x1) Integrated ExpressScope Management Suite Remote KVM over IP and remote media
Ethernet port	2x RJ45	2x RJ45
Audio ports	-	-
POWER SUPPLY		
Power Supply Unit	1, Fixed or HotSwap - 600W w/ PFC	HotSwap 750W w/ PFC
Hot-Plug PSU option	Optional redundant PSU : 650W w/ PCF	Optional redundant PSU
Number of Power Supplies	1 fixed or 2 redundant	Up to 2 redundant
Dissipation (max)	1877 BTU per hour (fixed PSU) 2218 BTU per hour (HotSwap PSU)	2560 BTU per Hour
VENTILATION		
Fan specifications	2 fixed	3x Fixed - Optional : redundant fan kit (2+2) (only with 80W CPU)
PHYSICAL SPECIFICATIONS		
Size (HxWxD)	483H x 453W x 236D (mm)	205H x 599Wx 435D (mm)
Weight	25 - 35 kg	19 - 25 kg
Operating constraints	10 to 35° C, 20 to 80% RH	10 to 35° C, 20 to 80% RH
OS & SOFTWARE		
Management software	Option : ESMPRO Server Manager NEC System Area Manager	Standard : ESMPRO Server Manager Option : NEC System Area Manager
Install & Configuration software	ExpressBuilder	ExpressBuilder
Software certification	Windows Server™ 2008 Windows Server™ 2003 R2 SP2 (x64, x86) VMware 3.5	Windows Server™ 2008 Windows Server™ 2003 R2 SP2 (x64, x86) Red Hat® Linux™ EL 5.1 (*1)
Additional supported OS	Red Hat® Linux™ EL 4.5 & 5.1 (*1) Novell Suse SLES 10 (*1)	Novell ® SuSe™ SLES 10 SP3 (*1)
Additional tested OS (*2)	Windows Server™ 2000 (32 bits)	Mandriva CS 4u2 - Fedora 8 - Debian R4
WARRANTY		
Standard warranty	3 years on site NBD	3 years on site NBD
NEC ULTRACARE SERVICES		
Warranty Extensions	On site intervention D+1 8*5 (Basic) Intervention under 4H 8*5 (Advantage) Repair Time Commitment (RTC) H+6 24*7 (Premium)	On site intervention D+1 8*5 (Basic) Intervention under 4H 8*5 (Advantage) Repair Time Commitment (RTC) H+6 24*7 (Premium)
Value Added Services	Professional services (cf heading Enterprise UltraCare offer)	Professional services (cf heading Enterprise UltraCare offer)
REGULATORY & SAFETY		
Regulatory compliance	CE	CE
RECOMMENDED UPS		
	Optional : SU1000 230V 1000VA	Optional : SU1000 230V 1000VA

*1 Please contact us to get Linux drivers that are not included in distributions - *2 Contact us to get latest test reports

ENTERPRISE TOWER SERVERS - AT A GLANCE

EXPRESS5800/120Lj

DESIGN	
Form factor	Tower or Optional 5U Rack Mount Kit
PROCESSOR	
Number of processors	2
Type	Quad-Core Intel® Xeon® - 5400 series (up to 3.16 GHz/1333MHz FSB/2x6MB L2 cache) Dual-Core Intel® Xeon® Processor - 5200 series (up to 3.3GHz/1333MHz FSB/6MB L2 cache)
Slot type	LGA771
Integrated L1 cache	
L2 cache std / max / type	6MB / 2x 6MB
L3 cache	-
Processor Front Side Bus speed	1066/1333 MHz
ARCHITECTURE	
Chipset	Intel 5000P + Intel® 6321(ESB2E) + ServerEngines Pilot2 TPM 1.2 for enhanced security
I2O Ready	
MEMORY	
Memory Min/Max	2GB / 48GB (24GB for water cooling)
Type	DDR2 667 ECC FBD DIMMs - Chipkill, Mirroring, Sparing
Memory slots	12 DIMM
I/O SLOTS	
Total slots	Total : 6 slots PCI EXPRESS™ : 4 2@X8 + 2@X4 (One PCI slot dedicated to RAID Controller) 64bit/133MHz PCI-X : 1 (3.3V) 32bit/33MHz PCI: 1 (5V)
Bus slots free	2 PCI + 4 PCI Express
MEDIA & STORAGE	
CD ROM drive	DVD Writer R9 IDE 2.4X 1.6" DVD Drive IDE 16X48X 1.6"
Floppy Disk Drive	Optional external 1.44MB USB FDD
Hard Disk Drives SATA 7200 rpm	160/250/500/750GB/1TB (3,5")
Hard Disk Drives SATA 10000 rpm	-
Hard Disk Drives SCSI U320 10Krpm	-
Hard Disk Drives SCSI U320 15Krpm	-
Hard Disk Drives SAS 15Krpm	73/146GB HotSwap (2,5")
Hard Disk Drives SAS 10Krpm	73/146/300/450 GB HotSwap (3,5") 73/146/300GB HotSwap (2,5")
Standard HDD and Media controllers	On-board : 1-ch EIDE Controller
RAID controller	Optional : PCI express x8 RAID controller (128MB or 256MB cache) supporting RAID 0,1,5,6,10,50 Battery Backup Unit
Maximum Internal Storage capacity	2.5" SAS 10Krpm : 4.8TB (300GB x16) 2.5" SAS 15Krpm : 1.1TB (73GB x16) 3.5" SAS 15Krpm : 3.6TB (450GB x8) 3.5" SATA2 7.2Krpm : 8TB (1TB x8)
MEDIA BAYS	
5.25" Media bays (total / free)	5.25" x3
3.5" Media bays (total / free)	2 / 1
3, 5" or 2.5" Non-Hot Swap HDD bays	8x 3.5" (4+4)
3, 5" or 2.5" Hot Swap HDD bays	16x 2.5" (8+8)
VIDEO	
Video controller	Embedded
Video memory std / max / type	8MB VRAM

ENTERPRISE TOWER SERVERS - AT A GLANCE

EXPRESS5800/120Lj

NETWORK	
Network interface controller	Embedded Dual Gigabit Ethernet w/ WOL (1000BASE-T x 2) + Dedicated Remote Management Port (100BASE-T x1)
SECURITY	
2 level passwords	Yes
Front door / Intrusion protection	Yes/Yes
I/O PORTS	
USB ports	USB2.0 x4 (2x Front + 2x Rear),
Serial port	Serial x2
Parallel port	-
Mouse / keyboard port	Keyboard x1, Mouse x1,
SVGA video port	SVGA Video x1
External SCSI connector	Optional 1x Connector 68 pin VHD (SCSI Port)
System Management	Dedicated Remote Management Port Integrated ExpressScope Management Suite featuring KVM over IP and Remote media
Ethernet port	2x RJ45
POWER SUPPLY	
Power Supply Unit	600VA/730W
Hot-Plug PSU option	Yes
Power supply numbers	Standard : 1, HotSwap - Optional : Redundant PSU (1+1)
Dissipation	2389 BTU per Hour
VENTILATION	
Fan specifications	Standard : 2x Fixed - Optional : + 1 Fan HotSwap - redundant fan kit (Not available with water cooling kit)
PHYSICAL SPECIFICATIONS	
Size (HxWxD)	453H x 220W x 711D (mm)
Weight	25kg (standard), 35kg (max)
Operating constraints	10 to 35° C, 20 to 80% RH
Acoustics	45dB at 25°C (40dB with water cooling kit)
OS & SOFTWARE	
Management software	Standard : ESMPRO Server Manager Option : NEC System Area Manager
Install & Configuration software	ExpressBuilder
Software certification	Windows Server™ 2008 Windows Server™ 2003 R2 SP2 (x64, x86) Red Hat® Linux™ EL 5.1 (*1) VMware vi3.0.2 and 3.5
Additional supported OS	Novell ® SuSe™ SLES 10 SP3 (*1)
Additional tested OS (*2)	Mandriva CS 4u2 - Fedora 8 - Debian R4
WARRANTY	
Standard warranty	3 years on-site NBD
NEC ULTRACARE SERVICES	
Warranty Extensions	On site intervention D+1 8*5 (Basic) Intervention under 4H 8*5 (Advantage) Repair Time Commitment (RTC) H+6 24*7 (Premium)
Value Added Services	Professional services (cf heading Enterprise UltraCare offer)
REGULATORY & SAFETY	
Regulatory compliance	CE
RECOMMENDED UPS	
	Optional : SU 1500

(*1) Please contact us to get Linux drivers that are not included in distribution
(*2) Contact us to get latest test report

NEC SI1520

The POWERFUL workgroup server

POWERFUL AND FLEXIBLE, THE NEC SI1520 IS A RACKABLE MINI-TOWER ENTRY LEVEL SERVER.

It delivers performance, flexibility at affordable price and is designed to be easy to set up, run and troubleshoot for everyday's applications.

The NEC SI1520 is the best value-price performance entry server

Description	NEC References	Notes
Intel® Pentium® Dual Core E2220 2.4GHz/1MB/800MHz		
Config SATA2 fixe : 1MB 800MHz ECC - 250GB SATA2 - Onboard RAID SATA controller (Linux 0,1)(Win 0,1,5) - DVD writer - 32MB video - PSU 400W - Management with NEC System Area Agent - 1 year on-site NBD	EA6N1E3-000CZ**	NP VD
Pentium Dual Core E3110 3GHz/6MB/1333MHz		
Config SATA2 fixed : 1MB 800MHz ECC - 250GB SATA2 - Onboard RAID SATA - DVD writer - 32MB video - PSU 400W - Management with NEC System Area Agent - 1 year on-site NBD	EA6N3UP-000BZ**	NP VD
Config SAS RAID 1 fixed : 1MB 800MHz ECC - 73GB 15 Krpm SAS - RAID 1 controller with 128MB of cache - DVD writer - 32MB video - PSU 400W - Management with NEC System Area Agent - 1 year on-site NBD	EA7NE96-000BZ**	NP VD
Xeon Dual Core E3120 3.16GHz/6MB/1333MHz		
Config SATA2 RAID 1 fixed : 2MB 800MHz ECC - 2 x 250GB SATA2 - RAID 1 controller with 128MB of cache - Internal FDD - DVD writer - 32MB video - PSU 400W - Management with NEC System Area Agent - 1 year on-site NBD	EA6NE9N-000BZ**	NP VD
Config SAS RAID 5 fixed : 2MB 800MHz ECC - 2 x 73GB 15 Krpm SAS - RAID 1 controller with 128MB of cache - Internal FDD - DVD writer - 32MB video - PSU 400W - Management with NEC System Area Agent - 1 year on-site NBD	EA7NE9R-000BZ**	NP VD
Xeon Quadri Core X3350 2.66GHz/2x6MB/1333MHz		
Config SATA2 RAID 1 fixed : 4MB 800MHz ECC - 2x1TB SATA2 - RAID 1 controller with 128MB of cache - Internal FDD - DVD writer - 32MB video - PSU 400W - Management with NEC System Area Agent - 1 year on-site NBD	EA6NE9Z-000BZ**	NP VD
Config SAS RAID 5 fixed : 4MB 800MHz ECC - 3 x 146GB 15 Krpm SAS - RAID 5 controller with 256MB of cache - Internal FDD - DVD writer - 32MB video - PSU 400W - Management with NEC System Area Agent - 1 year on-site NBD	EA7NT1P-000AZ**	NP VD

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NEC SI1720

The SECURED workgroup server

NEC'S SI1720 IS A SINGLE-SOCKET 6U TOWER SERVER.

It combines value and technology for customers demanding the powerful performance and the best flexibility in a single-processor server.

Security & reliability for small businesses

DDR2-800

RAID 6

Description	NEC References	Notes
Pentium Dual Core E3110 3GHz/6MB/1333MHz		
Config SATA RAID fixed : 1GB DDR2 800MHz ECC - 160GB SATA2 - RAID 1 controller with 128MB of cache - DVD writer - PSU 550W - Management with NEC System Area Agent - 1 year on-site NBD	EB5NEA4-000BZ**	NP VD
Config SAS RAID 1 fixed : 1GB DDR2 800MHz ECC - 73GB SAS 15Krpm - RAID 1 controller with 128MB of cache - DVD writer - PSU 550W - Management with NEC System Area Agent - 1 year on-site NBD	EB6NEAL-000BZ**	NP VD
Xeon Dual Core E3120 3.16GHz/6MB/1333MHz		
Config SATA RAID 5 Hot-Plug : 2GB DDR2 800MHz ECC - 3x 160GB SATA Hot-Plug - SATA RAID 5 controller with 128MB of cache - Internal FDD - DVD writer - PSU 650W - Management with NEC System Area Agent - 1 year on-site NBD	EB5NEAR-000BZ**	NP VD
Config SAS RAID 5 Hot-Plug : 2GB DDR2 800MHz ECC - 3 x 146GB SAS 15Krpm Hot-Plug - RAID 5 SAS controller with 128MB of cache - Internal FDD - DVD writer - PSU 650W - Management with NEC System Area Agent - 1 year on-site NBD	EB6NEB2-000BZ**	NP VD
Xeon Quadri Core X3350 2.66GHz/2x6MB/1333MHz		
Config SATA RAID 6 Hot-Plug: 4GB DDR2 800MHz ECC - 4x 1TB SATA Hot-Plug - RAID 6 SATA controller with 256MB of cache - nternal FDD - DVD writer - PSU 650W - Management with NEC System Area Agent - 1 year on-site NBD	EB5NT24-000AZ**	NP VD
Config SAS RAID 6 Hot-Plug: 4GB DDR2 800MHz ECC - 4 x 300GB SAS 15Ktpm Hot-Plug - RAID 6 SATA controller with 256MB of cache - nternal FDD - DVD writer - PSU 650W - Management with NEC System Area Agent - 1 year on-site NBD	EB6NT25-000AZ**	NP VD

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NEC EXPRESS5800/120EH2

The FLEXIBLE workgroup server

THE VALUE SERVER FOR FAST-GROWING SMALL AND MEDIUM-SIZED BUSINESSES.

The NEC Express 5800/120Eh-2 is a 2 way tower server that delivers performance, modularity and simplicity for distributed IT and workgroup applications and increasingly changing environments.

Dual processor tower server for the most demanding applications.

DDR2-667

RAID 6

Description	NEC references	Notes
Xeon Dual Core 5205 1.86GHz/6MB/1066MHz		
Config SATA Fixed: 1GB DDR2 667 - 160GB SATA Fixe - DVD writer - PSU Fixed 550W - 3 years on-site NBD	E87NECN-000BZ**	NP VD
Config SATA RAID Hot-Plug: 1GB DDR2 667 -2x 250GB SATA Hot-Plug - SATA RAID 1 controller with 128MB of cache - DVD writer - External FDD - PSU Hot-plug 650W - 3 years on-site NBD	E87NECP-000BZ**	NP VD
Config SAS RAID 5 Hot-Plug : 2GB DDR2 667 - 3x 73GB 15Krpm SAS Hot-plug - SAS RAID 5 controller with 256MB of cache - DVD writer - External FDD - PSU Hot-plug 650W - 3 years on-site NBD	E86N8HM-000AZ**	NP VD
Xeon Quadri Core E5420 2.5GHz/2x6MB/1333MHz		
Config SATA Fixed: 1GB DDR2 667 - 160GB SATA Fixe - DVD writer - PSU Fixed 550W - 3 years on-site NBD	E87NECW-000BZ**	NP VD
Config SATA RAID Hot-Plug: 1GB DDR2 667 - 2x 160GB SATA Hot-Plug - SATA RAID 1 controller with 128MB of cache - DVD writer - External FDD - PSU Hot-plug 650W - 3 years on-site NBD	E87NECY-000BZ**	NP VD
Config SAS RAID 5 Hot-Plug : 2GB DDR2 667 - 3x 73GB 15Krpm SAS Hot-plug - SAS RAID 5 controller with 256MB of cache - DVD writer - External FDD - PSU Hot-plug 650W - 3 years on-site NBD	E86N8HR-000AZ**	NP VD
Xeon Dual Core 5460 3.16GHz 2x6MB 1333MHz		
Config SATA Fixed : 1GB DDR2 667 - 160GB SATA Fixe - DVD writer - PSU Fixed 550W - 3 years on-site NBD	E87NED0-000BZ**	NP VD
Config SATA RAID Hot-Plug:1GB DDR2 667 -2x 160GB SATA Hot-Plug - SATA RAID 1 controller with 128MB of cache - DVD writer - External FDD - PSU Hot-plug 650W - 3 years on-site NBD	E87NED2-000BZ**	NP VD
Config SAS RAID 5 Hot-Plug : 2GB DDR2 667 - 3x 73GB 15Krpm SAS Hot-plug - SAS RAID 5 controller with 256MB of cache - DVD writer - External FDD - PSU Hot-plug 650W - 3 years on-site NBD	E86N8HZ-000AZ**	NP VD

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NEC EXPRESS5800/120EI

The PERFORMANT departmental server

The SAS Optimised Server for small and medium-sized businesses

NEC EXPRESS5800/120EI IS A DUAL-SOCKET 5U TOWER SERVER.

It delivers an excellent combination of high performance, robustness, simplicity of management for the most important applications.

2.5" SAS optimized disks, Data security, Business continuity, Decrease Maintenance costs

Description	NEC references	Notes
Xeon Dual Core E5205 1.86GHz/6MB/1066MHz		
Config SAS RAID Hot-Plug : 2GB DDR2 667 - 73GB 10Krpm SAS 2.5" Hot-plug - RAID SAS controller - DVD writer - PSU Hot-plug 750W - 3 years on-site NBD	EB3NT2D-000AZ**	NP VD
Xeon Quadri Core E5405 2GHz/2x6MB/1333MHz		
Config SAS RAID 5 Hot-Plug : 2GB DDR2 667 - 3x 146GB 10Krpm SAS 2.5" Hot-plug - RAID 5 SAS controller 128MB of cache - DVD writer - PSU Hot-plug 750W - 3 years on-site NBD	EB3N8JU-000AZ**	NP VD
Xeon Quadri Core E5420 2.5GHz/2x6MB/1333MHz		
Config SAS RAID 6 Hot-Plug : 4GB DDR2 667 - 4x 73GB 15Krpm SAS Hot-plug - RAID 6 SAS controller with 128MB of cache - DVD writer - External FDD - PSU Hot-plug 750W - 3 years on-site NBD	EB3N8JW-000AZ**	NP VD
Xeon Quadri Core X5460 3.16GHz 2x6MB 1333MHz		
Config SAS RAID 6 Hot-Plug : 4GB DDR2 667 - 4x 73GB 15Krpm SAS Hot-plug - RAID 6 SAS controller with 256MB of cache - DVD writer - External FDD - PSU Hot-plug 750W - 3 years on-site NBD	EB3N8K0-000AZ**	NP VD

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NEC Express5800/120LJ :
The HIGH AVAILABILITY departmental server

BEST IN CLASS LOW NOISE SOLUTION BASED ON LIQUID COOLING (40DB AT 25°C)

NEC Express5800/120Lj is a dual-socket server available in either a 5U rack or a tower form factor, that delivers performance, expandability and full remote manageability for an adaptable infrastructure that evolves at the same pace as your company.

Virtualisation server, Maximum scalability, Data protection, Full remote management

DDR2-667

RAID 6

EXTREME SILENT OPERATION!
Optimal acoustics upgrade kit

Description	NEC references	Notes
Xeon Dual Core E5205 1.86GHz/6MB/1066MHz		
Config SATA : 2GB DDR2-667 -160GB SATA Hot-plug - DVD writer - PSU Hot-plug 750W - Redundant and Hot-Plug Fan - 3 years on-site NBD	EB7NYK9-000AZ**	NP VD
Config SAS RAID Hot-plug : 2GB DDR2-667 FBD - 3x 73GB 15Krpm SAS Hot-plug - RAID 5 SAS controller with 128MB of cache - DVD writer - PSU Hot-plug 750W - Redundant and Hot-Plug Fan - 3 years on-site NBD	EB7NT35-000AZ**	NP VD
Xeon Quadri Core E5405 2GHz/2x6MB/1333MHz		
Config SAS RAID Hot-plug : 2GB DDR2-667 - 2 x 73GB 10Krpm SAS Hot-plug 2.5" - RAID 1 SAS controller with 128MB of cache - DVD writer - External FDD - PSU Hot-plug 750W - Redundant and Hot-Plug Fan - 3 years on-site NBD	EB8NT36-000AZ**	NP VD
Config SAS RAID 6 Hot-plug : 4GB DDR2-667 FBD - 3x 146GB 10Krpm SAS Hot-plug 2.5" - RAID 5 SAS controller with 128MB of cache - DVD writer - External FDD - PSU redundant Hot-Plug 750W - Redundant and Hot-Plug Fan - 3 years on-site NBD	EB8NT34-000AZ	NP VD
Xeon Quadri Core X5460 3.16GHz 2x6MB 1333MHz		
Config SATA RAID : 2GB DDR2-667 - 2 x 750GB SATA - RAID 1 controller with 128MB of cache -DVD writer - PSU Hot-plug 750W - Redundant and Hot-Plug Fan - 3 years on-site NBD	EB7NT3B-000AZ**	NP VD
Config SAS RAID 6 Hot-plug : 4GB DDR2-667 FBD - 4x 73GB 15Krpm SAS Hot-plug - RAID 6 SAS controller with 256MB of cache - DVD writer - External FDD - PSU redundant Hot-Plug 750W - Redundant and Hot-Plug Fan - 3 years on-site NBD	EB7NT3A-000AZ**	NP VD

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NEC ENTERPRISE

Rack-Optimised Server Solutions

FOR SPACE-SENSITIVE ENVIRONMENTS

ENTERPRISE RACK SERVERS

SI1120R-1

120Rh-1

120Rj-2

R140a-4

1-Way	2 Way		4 Way
Xeon UP Dual/Quad Core 3100 & 3300 series	Xeon DP Dual/Quad Core 5200 & 5400 series		Dual/Quad Core 7400 7200 & 7300
DIMMs 4	DIMMs 12		DIMMs 32
SATA 3,5"	SATA/SAS 3,5" et SAS 2,5"		SAS 2,5"
Disk Array RAID Support			
	HotSwap HDD Support		
	Redundant HotSwap PSU (SAS Model)	Redundant HotSwap PSU	
	Redundant Fans	HotSwap Redundant Fans	
			HotPlug PCI
ESMPRO Agent "NEC System Area Manager" "Microsoft System Center Essentials" compatible	ESMPRO Dianascope Management Suite ExpressScope Engine 2 Remote Management Remote KVM over IP and Remote Media		

ENTERPRISE RACK SERVERS - AT A GLANCE

	NEC SI1120R-1	Express5800/120Rh-1
DESIGN		
Form factor	Rack 1U (Depth < 20") - Optional cable arm and sliding rails	Rack 1U - with One touch rails
PROCESSOR		
Number of processors	1	2
Type	Quad-Core Intel® Xeon® Processor (3300 series, up to 2.83GHz/2x6MB/1333MHz) Dual-Core Intel® Xeon® Processor (3100 series, up to 3GHz/6MB/1333MHz) (2000 series, up to 2GHz/1MB/800MHz)	Quad-Core Intel® Xeon® (5400 series, up to 3.16GHz/1333MHz FSB/2x6MB L2 cache) Dual-Core Intel® Xeon® Processor (5200 series, up to 3.3GHz/1333MHz FSB/6MB L2 cache)
Slot type	LGA 775	LGA771
Integrated L1 cache		20KB
L2 cache std / max / type	1MB / 4MB/ 6MB / 2x6MB ECC	6MB or 2x6MB ECC
L3 cache	-	-
Processor Front Side Bus speed	800MHz/1333Mhz	1066/1333MHz
ARCHITECTURE		
Chipset	Intel® 3210 + ICH9R	Intel® 5000P + ESB2E + ServerEngines Pilot2 TPM 1.2 for enhanced security
I_2O Ready		
MEMORY		
Memory Min/Max	1MB / 8GB	2GB / 48GB
Type	DDR2 800 ECC SDRAM	DDR2-667 FB-DIMM - ECC, Chipkill, Mirroring, On-line Sparing
Memory slots	4 DIMM	12 DIMM
I/O SLOTS		
Total slots	PCI EXPRESSTM x8 : 1 Full height	2 slots Full Height : 64bit/100MHz PCI-X : 1 or PCI EXPRESS™ (x8) : 1 Low Profile Standard : PCI EXPRESS™ (x8) : 1
Bus slots free	1 PCI Express	PCI + PCI Express
MEDIA & STORAGE		
CD / DVD ROM drive	DVD Writer 24X IDE (Slim)	DVD RW 48X24X48X16 drive
Floppy Disk Drive	Optional : external USB FDD 3.5" 1.44MB	Optional : external USB FDD 3.5" 1.44MB
Hard Disk Drives SATA-2 7200rpm	160/250/500/750GB/1TB	160/250/500/750GB/1TB
Hard Disk Drives SATA-2 1000rpm		-
Hard Disk Drives SCSI U320 10Krpm	-	-
Hard Disk Drives SCSI U320 15Krpm	-	-
Hard Disk Drives SAS 3,5" 15Krpm	-	36/73/146/300/450GB
Hard Disk Drives SAS 2,5" 15Krpm	-	36/73GB
Hard Disk Drives SAS 2,5" 10Krpm	-	73/146/300GB
Standard HDD and Media controllers	On-board : 2 ports SATA2 Optional : SCSI U320 Adaptec29320LPE	On-board : SATA2 3ch
RAID controller	On-board : SATA2 SW RAID 0, 1 Optional : Megaraid SAS 8708EM2 (128MB cache)	Standard : on-board RAID 0, 1 Optional: SAS/SATA RAID 0, 1, 5, 6 controller (128MB or 256MB cache). Battery Backup Unit
Maximum Internal Storage	SATA2 : 2TB (1TB x2)	SATA2 : 3TB (1TB x3) 3,5" SAS: 1.35TB (450GB x3) 3,5" 1.8GTB (300GB x6) 2,5" - 438GB (73GB x6) 2,5"
Storage Expansion Unit	External Option	External Option
MEDIA BAYS		
5.25" Media bays (total / free)	Slim Bay for Optical Device Drive	-/-
3.5" Media bays (total / free)		-/-
3.5" Non-Hot Swap HDD bays	3.5" 2 x1"	-
2,5" or 3.5" Hot swap HDD bays	-	3.5" 3 x1" (SATA or SAS) - 2.5" 6 x1" (SAS)
VIDEO		
Video controller	Embedded	Onboard
Video memory std / max / type	ATI ES1000 video / 32MB VRAM	PCI SVGA Video / 8MB VRAM

ENTERPRISE RACK SERVERS - AT A GLANCE

NEC SI1120R-1

Express5800/120Rh-1

NETWORK		
Network interface controller	2 Gigabit Ethernet with teaming and load balancing support	1000BASE-T x 2 (w/IOAT) 1-ch 10/100BASE-T dedicated to management
SECURITY		
2 level passwords	Yes	Yes
Front door / Intrusion protection	optional bezel / '-	Yes/Yes
I/O PORTS		
USB ports	USB2.0 x4 (2x Front + 2x Rear)	USB2.0 x4 (2x Front + 2x Rear)
Serial port	Serial x1	Serial x2
Parallel port	-	-
Mouse / keyboard port	Keyboard x1, Mouse x1	Keyboard / Mouse x1
SVGA video port	VGA video x1	VGA video x1
External SCSI connector	-	-
System Management	Embedded IPMI 2.0 management controller	Dedicated Management port 1x RJ45 Remote Management : ExpressScope Engine 2, Integrated remote Media and KVM over IP
Ethernet port	RJ-45 x2	RJ45 x2
POWER SUPPLY		
Power Supply Unit	300VA/350W w/ PFC	600VA/650W w/ PFC fixe (SATA) 650W HotSwap (SAS)
Hot-Plug PSU option	-	SATA2 model : 1, fixe or Hot Swap not redundant SAS models : Standard : Hot-Swap Optional : Up to 2, Redundant
Power supply numbers	1 fixed	1 standard (SATA), up to 2 redudant (SAS)
Dissipation (max)	1195BTU per Hour	2218 BTU per Hour
VENTILATION		
Fan specifications	5, fixed	Fixed redundant
PHYSICAL SPECIFICATIONS		
Size (HxWxD)	43H x 506W x 430D mm	43H x 425W x 718D mm
Weight	8-12 kg	16 - 21 kg
Operating constraints	10 to 35° C, 20 to 80% RH	10 to 35° C, 20 to 80% RH
Acoustics (idle/running)		51.7dB/52,1dB at 25°
OS & SOFTWARE		
Management software	**Standard :** NEC System Area Agent **Optional:** NEC System Area Manager - Compatible with Microsoft System Server Essentials Suite - ESMPRO Agent Generic	**Standard :** ESMPRO Server Manager **Option :** NEC System Area Manager
Install & Configuration software	ExpressBuilder	ExpressBuilder
Software certification	Windows Server™ 2008 Windows Server™ 2003 R2 SP2 (x64, x86) Red Hat® Linux™ EL 4.5 and EL 5.1 (*1)	Windows Server™ 2008 Windows Server™ 2003 R2 SP2 (x64, x86) Red Hat® Linux™ EL 4.5 and EL 5.0 (*1) Novell ® SuSe™ SLES 10 SP3 (*1) - VMware vi3.0.2 and 3.5
Additional tested OS (*2)	Windows XP 32 bits - Fedora Debian Mandriva CS 4.0 Novell Suse SLES 10 (*1)	Red Hat® Linux™ EL 4.6 and EL 5.1 (*1) - Mandriva CS 4u2 Fedora 8 - Debian
WARRANTY		
Standard warranty	1 year on site NBD	3 years on site NBD
NEC ULTRACARE SERVICES		
Warranty Extensions	On site intervention D+1 8*5 (Basic) Intervention under 4H 8*5 (Advantage) Repair Time Commitment (RTC) H+6 24*7 (Premium)	On site intervention D+1 8*5 (Basic) Intervention under 4H 8*5 (Advantage) Repair Time Commitment (RTC) H+6 24*7 (Premium)
Value Added Services	Professional services (cf heading Enterprise UltraCare offer)	Professional services (cf heading Enterprise UltraCare offer)
REGULATORY & SAFETY		
Regulatory compliance	CE	UL, FCC,CE
RECOMMENDED UPS		
	Optional UPS : SU1500RM 230V 1500VA	Optional SU1500RM 230V 1500VA

*1 Please contact us to get Linux drivers that are not included in distribution
*2 Contact us to get latest test report

ENTERPRISE RACK SERVERS - AT A GLANCE

Express5800/120Rj-2

[NEW]

Express5800/R140a-4

DESIGN		
Form factor	Rack 2U - with One touch rails	Rack 4U
PROCESSOR		
Number of processors	2	4
Type	Quad-Core Intel® Xeon® (5400 series, up to 3.16GHz/1333MHz FSB/2x6MB L2 cache) Dual-Core Intel® Xeon® Processor (5200 series, up to 3.3GHz/1333MHz FSB/6MB L2 cache)	Dual-Core Intel® Xeon® Processor E7220 (2.93GHz /8MB /1066MHz) Quad-Core Intel® Xeon® Processor E7310/ X7350/ E7420 / E7430 / E7440 (up to 2.4GHz /16MB /1066MHz L2 Cache) Six-Core Intel® Xeon® Processor E7450 / X7460 (up to 2.66GHz /16Mo /1066MHz)
Slot type	LGA771	FC-PGA6
Integrated L1 cache	20KB	20KB
L2 cache std / max / type	6MB or 2x6MB ECC	2x2MB, 2x3MB, 2x4MB
L3 cache	-	8/16MB
Processor Front Side Bus speed	1066/1333 MHz	1066MHz
ARCHITECTURE		
Chipset	Intel® 5000P + ESB2E + ServerEngines Pilot 2 Embedded TPM 1.2 for enhanced security	Intel 7300
I_2O Ready		
MEMORY		
Memory Min/Max	2GB / 48GB	1GB / 128GB / 256GB
Type	DDR2-667 FB-DIMM - ECC, Chipkill, Mirroring, On-line Sparing	DDR2-667 FB-DIMM - ECC, Mirroring, On-line Sparing
Memory slots	12 DIMM	32DIMM
I/O SLOTS		
Total slots	**6 slots - Full Height** Optional : PCI EXPRESS™ x8: 1 - 64bit/100MHz PCI-X: 2 or 64bit/33MHz PCI (5V) : 3 or PCI EXPRESS™ x8 : 3 **Low Profile** Standard : PCI EXPRESS™ x8 : 1 - PCI EXPRESS™ x4 : 2	**7 slots** PCI EXPRESS™ x8 : 4 (2 HotPlug) PCI EXPRESS™ x4 : 3
Bus slots free	All	All
MEDIA & STORAGE		
CD / DVD ROM drive	DVD RW 48X24X48X16 drive*	DVD-ROM 24X IDE (Slim)
Floppy Disk Drive	Optional : External USB 1.44MB	Optional : External USB 1.44MB
Hard Disk Drives SATA-2 7200rpm	160/250/500/750GB/1TB	-
Hard Disk Drives SATA-2 1000rpm	-	-
Hard Disk Drives SCSI U320 10Krpm	-	-
Hard Disk Drives SCSI U320 15Krpm	-	-
Hard Disk Drives SAS 15Krpm (3,5")	73/146/300/450GB	
Hard Disk Drives SAS 15Krpm (2,5")	36/73GB	36/73GB
Hard Disk Drives SAS 10Krpm (2,5")	73/146/300GB	73/146/300GB
Standard HDD and Media controllers		8-p SAS on board - 1 ch SATA on board
RAID controller	On-board : SATA RAID 0, 1 Optional : 128MB or 256MB cache - RAID 0, 1, 5, 6 controller Battery Backup Unit	On-board RAID, 512MB of cache Optional : RAID 0, 1, 5, 6 Battery Backup Unit
Maximum Internal Storage	SATA2 : 6TB (1TB x6) 3,5" SAS : 2.7TB (450GB x6) 3,5" - 2.4TB (300GB x8) 2,5" 584GB (73GB x8) 2,5"	SAS :2.4TB (300GB x8) 2,5"
Storage Expansion Unit	External Option	External Option
BAYS		
5.25" Media bays (total / free)	-	1/1
3.5" Media bays (total / free)	1/1	0/0
2.5" Hot Swap HDD bays	2,5" 1" x8	2,5" 1" x8
3.5" Hot swap HDD bays	3.5" 1" x6	-
VIDEO		
Video controller	Onboard	Video controller is integrated to BMC - SVGA on I/O riser board
Video memory std /type	PCI SVGA Video / 8MB VRAM	8MB VRAM

* Check availability

ENTERPRISE RACK SERVERS - AT A GLANCE

Express5800/120Rj-2

[NEW]

Express5800/R140a-4

NETWORK		
Network interface controller	1000BASE-T x 2 (w IOAT) 1-ch 10/100BASE-T dedicated to management	Dual Gigabit Ethernet 2 ports Gigabit on I/O riser
SECURITY		
2 level passwords	Yes	Yes
Front door / Intrusion protection	Yes/Yes	Yes/Yes
I/O PORTS		
USB ports	USB2.0 x4 (2x Front + 2x Rear)	USB2.0 x6 (2x Front + 4x Rear)
Serial port	Serial x2	Serial x2 (1F, 1R)
Parallel port	-	-
Mouse / keyboard port	Keyboard / Mouse x1	Keyboard / Mouse x1
SVGA video port	SVGA video x1	Video VGA x2 (1 F, 1R)
External SCSI connector	-	-
System Management	Dedicated Management port 1x RJ45 ExpressScope Engine 2 featuring Remote Media and KVM over IP	Dedicated Management port 1x RJ45 for 10/100Mgt LAN ExpressScope Engine 2
Ethernet port	2x RJ45	4x RJ45
Others	-	
POWER SUPPLY		
Power Supply Unit	700VA/750W w/ PFC HotSwap	1800VA/1764W
Hot-Plug PSU option	Up to 2, redundant	2, redundant, HotSwap
Power supply numbers	1 standard + 1 optional	2 standard
Dissipation (max)	2560 BTU per hour	5358 BTU per hour
VENTILATION		
Fan specifications	Standard : 4 HotSwap, Not redundant - Optional : up to 4, Redundant	6, standard redundant, HotSwap
PHYSICAL SPECIFICATIONS		
Size (HxWxD)	88H x 427W x 722D (mm)	177H x 485W x 754D
Weight	21 - 30 kg	47 kg
Operating constraints	10 to 35° C, 20 to 80% RH	10 to 35° C, 20 to 80% RH
Acoustics (idle/running) :	50,8 dB/52,1dB at 25°	55dB (pressure)
OS & SOFTWARE		
Management software	Standard : ESMPRO Server Manager Option : NEC System Area Manager	Standard : ESMPRO Server Manager
Install & Configuration software	ExpressBuilder	ExpressBuilder
Software certification	Windows Server™ 2008 - Windows Server™ 2003 R2 SP2 (x64, x86) Red Hat® Linux™ EL 4.5 and EL 5.0 (*1) Novell ® SuSeTM SLES 10 SP3 (*1) - VMware vi3.0.2 and 3.5	Windows Server™ 2008 - Windows Server™ 2003 R2, Red Hat® Linux™ AS 4.0 / 5.0 (*1) VMware ESX vi3.0
Additional tested OS (*2)	Red Hat® Linux™ EL 4.6 and EL 5.1 (*1) Mandriva CS 4u2 - Fedora 8 - Debian	
WARRANTY		
Standard warranty	3 years on site NBD	3 years on site NBD
NEC ULTRACARE SERVICES		
Warranty Extensions	On site intervention D+1 8*5 (Basic) Intervention under 4H 8*5 (Advantage) Repair Time Commitment (RTC) H+6 24*7 (Premium)	On site intervention D+1 8*5 (Basic) Intervention under 4H 8*5 (Advantage) Repair Time Commitment (RTC) H+6 24*7 (Premium)
Value Added Services	Professional services (cf heading Enterprise UltraCare offer)	Professional services (cf heading Enterprise UltraCare offer)
REGULATORY & SAFETY		
Regulatory compliance	UL, FCC, CE	CE
RECOMMENDED UPS		
	Optional SU1500RM 230V 1500VA	Optional SU1500RM 230V 1500VA

*1 Please contact us to get Linux drivers that are not included in distribution
*2 Contact us to get latest test report

NEC SI1120R-1

The value front end server

Ultra-dense and compact single processor rack server that delivers value, density and ease of management for small infrastructures and front-office applications.

The NEC SI1120R-1 offers optimal performance with maximum density at a highly competitive price.

Description	NEC references	Notes
Intel® Pentium® Dual Core E2220 2.4GHz/1MB/800MHz		
Config SATA2 fixed : 1MB 800MHz ECC - 250GB SATA2 -Onboard RAID SATA controller (Linux 0,1)(Win 0,1,5) - DVD writer - 32MB video - PSU 350W - Management with NEC System Area Agent - 1 year on site NBD	EB4N4HE-000CZ**	NP VD
Pentium Dual Core E3110 3GHz/6MB/1333MHz		
Config SATA2 fixed : 1MB 800MHz ECC - 250GB SATA2 - Onboard SATA RAID - DVD writer - 32MB video - PSU 350W - Management with NEC System Area Agent - 1 year on site NBD	EB4N3Z1-000BZ**	NP VD
Xeon Dual Core E3120 3.16GHz/6MB/1333MHz		
Config SATA2 RAID fixed : 2MB 800MHz ECC - 2 x 250GB SATA2 - RAID 1 controller with 128MB of cache - DVD writer - 32MB video - PSU 350W - Management with NEC System Area Agent - 1 year on site NBD	EB4NFZJ-000BZ**	NP VD
Xeon Quadri Core X3350 2.66GHz/2x6MB/1333MHz		
Config SATA2 RAID 1 fixed : 4MB 800MHz ECC - 2 x 1TB SATA2 - RAID 1 controller with 128MB of cache - Internal FDD - DVD writer - 32MB video - PSU 350W - Management with NEC System Area Agent - 3 yearson site NBD	EB4NEFY-000BZ**	NP VD

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NEC Express5800/120Rh-1

The ultra slim rack server

NEC Express5800/120Rh-1 is a dual-socket, ultra-dense 1U rack server.

It combines outstanding performance, reliability and powerful remote management for space constraint data center.

Server Consolidation, High Density and Reliability, Simplified Installation.

Description	NEC references	Notes
Xeon Dual Core E5205 1.86GHz/6MB/1066MHz		
Config SATA : 2GB DDR2-667 - 250GB SATA Hot-plug - Onboard SATA RAID - DVD writer - PSU Hot-plug 650W - 3 years on site NBD	EB1NET8-000BZ**	NP VD
Config SAS RAID 5 Hot-plug : 2GB DDR2-667 FBD - 3x 73GB 15Krpm SAS Hot-plug - RAID 5 SAS controller with 128MB of cache - DVD writer - PSU Hot-plug 650W - 3 years on site NBD	EB1N8PG-000AZ**	NP VD
Xeon Quadri Core E5405 2GHz/2x6MB/1333MHz		
Config SAS RAID Hot-plug : 2GB DDR2-667 - 2 x 73GB 10Krpm SAS Hot-plug 2,5" - RAID 1 SAS controller with 128MB of cache - DVD writer - External FDD - PSU Hot-plug 650W - 3 years on site NBD	EB2N8PL-000AZ**	NP VD
Config SAS RAID 5 Hot-plug : 4GB DDR2-667 FBD - 3x 146GB 10Krpm SAS Hot-plug 2,5" - RAID 5 SAS controller with 128MB of cache - DVD writer - External FDD - Redundant Hot-plug PSU 650W - 3 years on site NBD	EB2N8PM-000AZ**	NP VD
Xeon Quadri Core X5460 3.16GHz 2x6MB 1333MHz		
Config SATA RAID : 2GB DDR2-667 - 2 x 750GB SATA - RAID 1 SAS controller with 128MB of cache - DVD writer - PSU Hot-plug 650W - 3 years on site NBD	EB1N8PH-000AZ**	NP VD
Config SAS RAID 5 Hot-plug : 4GB DDR2-667 FBD - 3x 73GB 15Krpm SAS Hot-plug - RAID 5 SAS controller with 256MB of cache - DVD writer - External FDD - Redundant Hot-plug PSU 650W - 3 years on site NBD	EB1N8PN-000AZ**	NP VD

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NEC Express5800/120Rj-2

The compact rack server with maximum expandability

NEC Express5800/120Rj-2 is a dual-socket compact server that delivers utmost performance for medium to large businesses, along with high expandability, reliability, and availability in a space-saving 2U rack form factor for the continuous operation in business critical environments.

Virtualization server, On-demand Upgrade, Powerful Remote

Description	NEC references	Notes
Xeon Dual Core E5205 1.86GHz/6MB/1066MHz		
Config SATA : 2GB DDR2-667 - 250GB SATA Hot-plug - DVD writer - PSU Hot-plug 750W - 3 years on site NBD	EA8N4HX-000CZ**	NP VD
Config SAS RAID Hot-plug : 2GB DDR2-667 FBD - 3x 73GB 15Krpm SAS Hot-plug - RAID 5 SAS controller with 128MB of cache - DVD writer - PSU Hot-plug 750W - 3 years on site NBD	EA8N8PU-000AZ**	NP VD
Xeon Quadri Core E5405 2GHz/2x6MB/1333MHz		
Config SAS RAID Hot-plug : 2GB DDR2-667 - 2 x 73GB 10Krpm SAS Hot-plug 2,5" - RAID 1 SAS controller with 128MB of cache - DVD writer - External FDD - PSU Hot-plug 750W - 3 years on site NBD	EA9N8PY-000AZ**	NP VD
Config SAS RAID 6 Hot-plug : 4GB DDR2-667 FBD - 4x 146GB 10Krpm SAS Hot-plug 2,5" - RAID 6 SAS controller with 128MB of cache - DVD writer - External FDD - Redundant Hot-Plug PSU 750W - 3 years on site NBD	EA9N8PZ-000AZ**	NP VD
Xeon Quadri Core X5460 3.16GHz 2x6MB 1333MHz		
Config SATA RAID : 2GB DDR2-667 - 2 x 750GB SATA - RAID 1 SAS controller with 128MB of cache - DVD writer - PSU Hot-plug 750W - 3 years on site NBD	EA8N8PW-000AZ**	NP VD
Config SAS RAID 6 Hot-plug : 4GB DDR2-667 FBD - 4x 73GB 15Krpm SAS Hot-plug - RAID 6 SAS controller with 256MB of cache - DVD writer - External FDD - Redundant Hot-Plug PSU 750W - 3 years on site NBD	EA8N8PX-000AZ**	NP VD

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Express5800/R140A-4

The High-Density & Performance Entreprise Server

SCALABLE PERFORMANCE AND EXPANDABLE CAPACITY WITH PROVEN ENTERPRISE-CLASS RELIABILITY FOR MISSION-CRITICAL ENTERPRISE.

High-end rack-optimized enterprise server featuring up to 24 processor cores from the latest Intel® Xeon® MP processor 7400 serie in a 4U server.

Designed for space-constrained corporate data centers and service providers which require resource performance (transactional processing data base, virtualization/consolidation/migration, ERP/CRM) for Microsoft ®Windows, Linux® and VMware® environments.

To enhance RAS (Reliability, Availability and Serviceability) functionality, the R140a-4 use Server remote management suite «EXPRESSSCOPE Engine 2 » and "Dianascope" management software.

Description	NEC references	Notes
Xeon Quad Core MP E7310 1.6GHz /2x2MB /1066MHz		
Config SAS RAID Hot-plug : 2GB DDR2-667 - 2 x 73GB 10Krpm SAS Hot-plug 2,5" - Onboard RAID 1 with 512MB of cache - DVD writer - External FDD - PSU redundant Hot-plug 750W - FAN redundant Hot-plug - 3 years on site NBD	EA4N8XB-000AZ**	NP VD
Xeon Quad Core MP E7430 2.13GHz /12MB /1066MHz		
Config SAS RAID 5 Hot-plug : 2GB DDR2-667 - 3 x 73GB 15Krpm SAS Hot-plug 2,5" - Onboard RAID 5 with 512Mo of cache - DVD writer - PSU redundant Hot-plug 750W - FAN redundant Hot-plug - 3 years on site NBD	EC5N4J2-000CZ**	NP NP VD
Xeon Six Core MP E7460 2.66GHz /12MB /1066MHz		
Config SAS RAID 5 Hot-plug : 4GB DDR2-667 - 3 x 146GB 10rpm SAS Hot-plug 2,5" - Onboard RAID 5 with 512MB of cache - DVD writer - PSU redundant Hot-plug 750W - FAN redundant Hot-plug - 3 years on site NBD	EC5N4J4-000CZ**	NP NP VD

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SERVER OPTIONS - 1/7

Description	SI1520	SI1720	120Eh-2	120Ei	120Lj	SI1120R-1	120Rh-1	120Rj-2	R140a-4	NEC References (Customer installable)
PROCESSORS										
Xeon Dual Core										
Intel® Xeon® Processor 5050 (3.0GHz/2x2MB/667MHz)			x							APC-3550-1C-00
Intel® Xeon® Processor 5110 (1.6GHz/4MB/1066MHz)			x							APC-3610-1C-00
Intel® Xeon® Processor 5130 (2.0GHz/4MB/1333MHz)			x							APC-3630-1C-00
Intel® Xeon® Processor 5130 (2.0GHz/4MB/1333MHz)			x							APC-3660-1C-00
Intel® Xeon® Processor E5205 (1.86GHz/6MB/1066MHz)			x							APC-4005-1C-00
Intel® Xeon® Processor E5205 (1.86GHz/6MB/1066MHz)				x	x					APC-4003-1C-00
Intel® Xeon® Processor E5205 (1.86GHz/6MB/1066MHz)							x			APC-4007-1C-00
Intel® Xeon® Processor E5205 (1.86GHz/6MB/1066MHz)								x		APC-4006-1C-00
Xeon Quad Core 5300 Series										
Intel® Xeon® Processor E5310 (1.6GHz/2x4MB/1066MHz)			x							APC-3811-1C-00
Intel® Xeon® Processor E5335 (2.0GHz/2x4MB/1333MHz)			x							APC-3836-1C-00
Intel® Xeon® Processor E5345 (2.33GHz/2x4MB/1333MHz)			x							APC-3846-1C-00
Xeon Quad Core 5400 Series										
Intel® Xeon® Processor E5405 (2GHz/2x6MB/1333MHz)			x							APC-4105-1C-00
Intel® Xeon® Processor E5420 (2.5GHz/2x6MB/1333MHz)			x							APC-4120-1C-00
Intel® Xeon® Processor E5440 (2.83GHz/2x6MB/1333MHz)			x							APC-4140-1C-00
Intel® Xeon® Processor X5460 (3.16GHz/2x6MB/1333MHz)			x							APC-4160-1C-00
Intel® Xeon® Processor E5405 (2GHz/2x6MB/1333MHz)				x	x					APC-4103-1C-00
Intel® Xeon® Processor E5420 (2.5GHz/2x6MB/1333MHz)				x	x					APC-4123-1C-00
Intel® Xeon® Processor E5440 (2.83GHz/2x6MB/1333MHz)					x					APC-4143-1C-00
Intel® Xeon® Processor X5460 (3.16GHz/2x6MB/1333MHz)					x					APC-4163-1C-00
Intel® Xeon® Processor E5440 (2.83GHz/2x6MB/1333MHz)				x	x					CPU-5440-EI-01
Intel® Xeon® Processor X5460 (3.16GHz/2x6MB/1333MHz)				x	x					CPU-5460-XI-01
Intel® Xeon® Processor X5470 (3.33GHz/2x6MB/1333MHz/120W)					x					CPU-5470-XI-01
Intel® Xeon® Processor E5405 (2GHz/2x6MB/1333MHz)							x			APC-4107-1C-00
Intel® Xeon® Processor E5420 (2.5GHz/2x6MB/1333MHz)							x			APC-4122-1C-00
Intel® Xeon® Processor E5440 (2.83GHz/2x6MB/1333MHz)							x			APC-4142-1C-00
Intel® Xeon® Processor X5460 (3.16GHz/2x6MB/1333MHz)							x			APC-4162-1C-00
Intel® Xeon® Processor E5405 (2GHz/2x6MB/1333MHz)								x		APC-4106-1C-00
Intel® Xeon® Processor E5420 (2.5GHz/2x6MB/1333MHz)								x		APC-4121-1C-00
Intel® Xeon® Processor E5440 (2.83GHz/2x6MB/1333MHz)								x		APC-4141-1C-00
Intel® Xeon® Processor X5460 (3.16GHz/2x6MB/1333MHz)								x		APC-4161-1C-00
Xeon MP										
Kit Xeon QuadCore 7310 1.6GHz 2x2MB / 1066MHz									x	APC-3910-1C-00
Kit Xeon QuadCore 7320 2.13GHz 2x2MB 1066MHz										APC-3920-1C-00
Kit Xeon QuadCore 7330 2.4GHz 2x3MB / 1066MHz										APC-3930-1C-00
Kit Xeon QuadCore 7340 2.4GHz 2x4MB / 1066MHz										APC-3940-1C-00
Kit Xeon QuadCore 7350 2.93GHz 2x4MB 1066MHz									x	APC-3950-1C-00
Processeur Intel Xeon QuadCore E7420 2.13GHz 12MB 1066MHz									x	CPU-7420-EI-01
Processeur Intel Xeon QuadCore E7430 2.13GHz 8MB 1066MHz									x	CPU-7430-EI-01
Processeur Intel Xeon QuadCore E7440 2.4GHz 16MB 1066MHz									x	CPU-7440-EI-01
Processeur Intel Xeon QuadCore E7450 2.4GHz 12MB 1066MHz									x	CPU-7450-EI-01
Processeur Intel Xeon QuadCore X7460 2.66GHz 16MB 1066MHz									x	CPU-7460-XI-01

SERVER OPTIONS - 2/7

Description	SI1520	SI1720	120Eh-2	120Ei	120Lj	SI1120R-1	120Rh-1	120Rj-2	R140a-4	NEC References (Customer installable)
CPU accessories										
IEEE1394 Firewire 32-bit PCI Controller Card (2x Connectors)			x							AIF-0113-00-00
Low noise cooling kit for one CPU (watercooled)					x					COD-CPHS-WC-00
1x PCI-Express X8 Riser Board (Full Height)							x			AIF-0346-00-00
1x PCI-X 64-bit/133MHz Riser Board (Full Height, 3.3V)							x			AIF-0347-00-00
1x PCI-Express X8 Riser Board (Full Height)							x			AIF-0342-00-00
Kit Ventilateurs hotPlug								x		ACF-0106-00-00
2x PCI-X 64/133MHz + 1x PCI-X 64/100MHz Riser Board (Full Height , 3.3V)								x		AIF-0343-00-00
1x PCI-Express X8 + 2x PCI-Express X4 Riser Board (Full Height)								x		AIF-0348-00-00
1x PCI-Express X8 + 2x PCI-X 64/100MHz (3.3V) Riser Board (Full Height)								x		AIF-0349-00-00
Motherboard FBD-533/667									x	AEX-4420-00-00
s = only server w = only workstation										
MEMORY										
1GB DDR2-800 ECC SDRAM (1x 1GB, PC2-6400)	x	x				x				AMS-5411-00-00
2GB DDR2-800 ECC SDRAM (1x 2GB, PC2-6400)	x	x				x				AMS-5421-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 1GB (2x 512MB)			x							AMS-4911-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 2GB (2x 1GB)			x							AMS-4921-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 4GB (2x 2GB)			x							AMS-4941-00-00
2GB FBD DDR2-667 ECC Registered SDRAM (2x 1GB)				x	x		x	x		MEM-0206-F2-00
4GB FBD DDR2-667 ECC Registered SDRAM (2x 2GB, PC2-5300)				x	x		x	x		MEM-0406-F2-00
8GB FBD DDR2 667 ECC Registered SDRAM (2x 4GB, PC2-5300)				x	x		x	x		MEM-0806-F2-00
FBDIMM DDR2-667 ECC Registered SDRAM : 1GB (2x 512MB)									x	AMS-4912-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 2GB (2x 1GB)									x	AMS-4922-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 4GB (2x 2GB)									x	AMS-4942-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 8GB (2x 4GB)									x	AMS-4982-00-00
Storage Controllers										
SCSI Controllers										
Adaptec 29160LP U160 SCSI 1-Channel Controller PCI 64-bit LP (internal: 1x68-pin U320, external: 1x68-pin U320 VHD)			x							AIF-0594-00-00
Adaptec 29320 SCSI U320 1-Channel Controller PCI 64-bit LP (internal: 1x68-pin U320, external: 1x68-pin U320 VHD)			x	x	x			x		AIF-0597-00-00
Adaptec 29320LPE SCSI U320 1-Channel Controller PCI Express X1	x	x		x	x	x	x	x	x	AIF-0602-00-00
LSI SAS3442E-R Host Bus Adaptor (PCIe-8x, 3Gb SAS, 4x external channels, SFF-8470 SAS external connector)							x	x		AIF-0603-00-00
RAID Serial ATA Controllers										
Batterie backup for AIF-0679-00-00			x							APM-0679-00-00
RAID SATA onboard (RAID 5) activation key			x							ACT-0100-00-00
RAID SAS Controllers										
LSI Logic MegaRAID SAS 8480E 8-Channel (External) RAID Controller PCI-Express X8 (256MB Cache, RAID0, 1, 5, 10, 50)				x	x	x	x	x	x	AIF-0696-00-00
LSI Megaraid SAS 8708EM2 RAID Controller PCI-Express X8 (128MB cache, RAID0,1,5,6,10,50)	x	x	x	x	x		x	x		AIF-0693-00-00
LSI Megaraid SAS 8708EM2 RAID Controller PCI-Express X8 (128MB cache, RAID0,1)	x	x	x	x	x	x	x	x		AIF-0693-00-B0
LSI Megaraid SAS 8708EM2 RAID Controller RAID 5,6 Upgrade Kit (extension of SAS8708EM2 RAID 0,1 module)	x	x	x	x	x		x	x		AIF-0693-00-U0
LSI Megaraid SAS 8708EM2 RAID Controller PCI-Express X8 (256MB cache, RAID0,1,5,6,10,50)	x	x	x	x	x		x	x		AIF-0699-00-00
LSI Megaraid SAS 8704ELP RAID Controller PCI-Express X4 (128MB cache, RAID0,1,5,10,50)			x							AIF-0698-00-00
Batterie Backup unit for AIF-0695/696 (MegaraidSAS 8480E or 8408E)				x	x	x		x	x	APM-0695-00-00
Battery Backup Unit : ROMB140xx									x	APM-1410-00-00
Battery Backup Unit for Megaraid SAS8708EM2 cards	x	x	x	x	x	x	x	x		APM-0693-00-00
Fibre Channel Controllers (3)										
64-bit PCI-X FC-AL 2Gbit Primary Host Connection kit (Emulex LP1050 optical w/drivers)							x	x		AIF-0710-00-00
64-bit PCI Express x4 FC-AL 4Gbit Host Connection kit (Emulex LP1150 optical w/drivers, dual brackets)				x	x	x	x	x	x	AIF-0714-00-00
PCIe Dual Port 64 bits Fibre Channel 4Gb optique RAID controllers (Emulex LPe11002 with drivers)				x	x		x	x	x	AIF-0716-00-00

(3) primary HBA is prerequisite to redundant kit (each kit includes 1 adapter).

SERVER OPTIONS - 3/7

Description	SI1520	SI1720	120Eh-2	120Ei	120Lj	SI1120R-1	120Rh-1	120Rj-2	R140a-4	NEC References (Customer installable)
HARD DISK DRIVES										
Serial-ATA 2 - 7200Krpm										
80GB SATA2 HDD (7,2 Krpm, 1", 8MB)	x	x				x				ADH-5812-00-00
160GB SATA2 HDD (7,2 Krpm, 1", 8MB)	x	x				x				ADH-5172-00-00
250GB SATA2 HDD (7,2 Krpm, 1", 8MB)	x	x				x				ADH-5262-00-00
500GB SATA2 (7,2 Krpm, 1", 8MB)	x	x				x				ADH-5512-00-00
750GB SATA2 HDD (7,2 Krpm, 1", 8MB)	x	x				x				ADH-5752-00-00
80GB SATA2 HDD (7,2 Krpm, 1", 8MB)			x							ADH-5805-00-00
160GB SATA2 HDD (7,2 Krpm, 1", 8MB)			x							ADH-5165-00-00
250GB SATA2 HDD (7,2 Krpm, 1", 8MB)			x							ADH-5255-00-00
500GB SATA2 HDD (7,2 Krpm, 1", 8MB)			x							ADH-5505-00-00
750GB SATA2 HDD (7,2 Krpm, 1", 8MB)			x							ADH-5757-00-00
80GB SATA2 HDD (7,2 Krpm, 1", 8MB)					x		x	x		ADH-5808-00-00
160GB SATA2 HDD (7,2 Krpm, 1", 8MB)				x	x		x	x		ADH-5168-00-00
250GB SATA2 HDD (7,2 Krpm, 1", 8MB)				x	x		x	x		ADH-5258-00-00
500GB SATA2 HDD (7,2 Krpm, 1", 8MB)				x	x		x	x		ADH-5501-00-00
750GB SATA2 HDD (7,2 Krpm, 1", 8MB)					x		x	x		ADH-5758-00-00
1TB 7200rpm SATA2 HDD	x	x				x				HDD-1T72-T3-00
1TB 7200rpm SATA2 HDD			x							HDD-1T72-T3-01
1TB 7200rpm SATA2 HDD				x	x					HDD-1T72-T3-04
1TB 7200rpm SATA2 HDD							x	x		HDD-1T72-T3-05
SAS fixes 15krpm										
Hot Plug 73GB SAS HDD (15krpm, 1") (2)	x									BDH-2797-00-00
Hot Plug 146GB SAS HDD (15krpm, 1") (2)	x									BDH-2497-00-00
Hot Plug 300GB SAS HDD (15krpm, 1") (2)	x									BDH-2397-00-00
SAS Hot-Plug 15krpm										
Hot Plug 73GB SAS HDD (15krpm, 1") (2)		x								HDD-7315-S3-00
Hot Plug 146GB SAS HDD (15krpm, 1") (2)		x								HDD-1415-S3-00
Hot Plug 300GB SAS HDD (15krpm, 1") (2)		x								HDD-3015-S3-00
Hot Plug 450GB SAS HDD (15krpm, 1") (2)		x	x							HDD-4515-S3-00
Hot Plug 73GB SAS HDD (15krpm, 1") (2)			x							BDH-2795-00-00
Hot Plug 146GB SAS HDD (15krpm, 1") (2)			x							BDH-2195-00-00
Hot Plug 300GB SAS HDD (15krpm, 1") (2)			x							BDH-2741-00-00
Hot Plug 73GB SAS HDD (15krpm, 1") (2)					x		x	x		BDH-2791-00-00
Hot Plug 146GB SAS HDD (15krpm, 1") (2)					x		x	x		BDH-2191-00-00
Hot Plug 300GB SAS HDD (15krpm, 1") (2)					x		x	x		BDH-2391-00-00
Hot Plug 450GB SAS HDD (15krpm, 1") (2)					x		x	x		HDD-4515-S3-03
Hot Plug 36GB SAS HDD 15Krpm, 2.5"				x	x		x	x	x	BDS-2692-00-00
Hot Plug 73GB SAS HDD 15Krpm, 2.5"				x	x		x	x	x	BDS-2792-00-00
SAS Hot-Plug 10krpm										
SAS Hard Disk Drive : 300GB 10K 2.5				x	x		x	x	x	NC
SAS Hard Disk Drive : 146GB 10K 2.5				x	x		x	x	x	BDS-1192-00-00
SAS Hard Disk Drive : 73GB 10K 2.5				x	x		x	x	x	BDS-1792-00-00

SERVER OPTIONS - 4/7

Description	SI1520	SI1720	120Eh-2	120Ei	120Lj	SI1120R-1	120Rh-1	120Rj-2	R140a-4	NEC References (Customer installable)
Hard Disk Drive Accessories										
5U Rack Mount Kit (Black)	x									NZA-1220-00-B0
Parallel + Serial 32-bit PCI Controller Card (3x Connectors : 1x Parallel + 2x Serial)	x	x								AIF-0117-00-00
6U Rack Mount Kit		x	x							NZA-1222-00-00
Redundant Fan Kit				x						ACF-0130-00-00
6U Rack Mount Kit				x						NZA-1226-00-00
Optional 4-drive Hot-swap SAS HDD cage (w/ carriers)					x					Factory-installable
Additional 8x 2.5' SAS HDD Cage					x					NC
5U Rack Mount Kit					x					NZA-1223-00-00
Dust Filters (10 pieces)					x					ACF-0120-00-00
Additional 4x 3.5' SAS/SATA HDD Cage					x					MCH-CAGE-43-00
5U Rack Mount Kit					x					MCH-NRMK-83-00
Cable Arm kit (with sliding rails)						x				AZA-1110-00-00
Front Bezel for Express5800/SI1120R-1						x				NZA-1293-00-00
Front Bezel for Express5800/120Rh-1							x			NZA-1291-00-00
Front Bezel for Express5800/120Rj-2								x		NZA-1292-00-00

Hot-swap disk carriers comes standard within the server chassis. No carrier supplied for add-on disk drives.

MEDIA PERIPHERALS										
Optical Drives										
DVD Writer : RW+/- S-ATA 20X8X 1.6" Black	x	x								ADR-DWS0-00-B0
DVD-ROM 16X IDE		x								NC
3.5" 1.44MB External Floppy Disk Drive (USB1.1)			x							ADF-0100-00-UB
3.5" 1.44MB External Floppy Disk Drive (USB1.1)	x	x		x	x	x	x	x	x	ADF-0102-00-UB
DVD Writer : MultiRW-/RAM IDE 24X16X24X8X 8X4X2.4X4X Slim							x	x		ADR-DW10-00-00
Internal EIDE DVD ROM 48X/16X			x							Factory-installable
DVD Writer +R9 IDE 2.4X 1.6"			x	x	x					Factory-installable
Tape Backup Options										
GoVault SATA (40/160GB) Internal Tape Drive (No Media)	x	x	x							ADT-GV00-00-00
DLT V4 (160/320GB) Internal Tape Drive (includes additional PCI 32bit SATA board, 1x data and 1x cleaning cartridges)	x	x								ADT-3200-00-B0
Internal Tape Drive DAT72 36/72GB SCSI (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges	x			x					x	ADT-7210-00-00
Internal Tape Drive DAT72 36/72GB SCSI (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges	x	x								ADT-7210-00-BB
Internal Tape Drive DAT72 36/72GB SCSI (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges				x	x					ADT-7210-00-U0
Internal Tape Drive DAT72 36/72GB SCSI (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges								x		ADT-7211-00-U0
Internal Tape Drive DAT160 80/160GB SCSI (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges				x	x			x	x	ADT-1610-00-00
Internal Tape Drive DAT160 80/160GB SCSI (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges	x	x	x							ADT-1620-00-00
Internal Tape Drive LTO2 200/400GB SCSI (baie 5"1/4), 1x data and 1x cleaning cartridges	x			x	x				x	ADT-4112-00-00
Internal Tape Drive LTO2 200/400GB SCSI (baie 5"1/4), 1x data and 1x cleaning cartridges		x								ADT-4112-00-BB
Internal Tape Drive LTO3 400/800GB SCSI (baie 5"1/4), 1x data and 1x cleaning cartridges										ADT-8110-00-00
Internal Tape Drive LTO3 400/800GB SCSI (baie 5"1/4), 1x data and 1x cleaning cartridges				x	x				x	ADT-8115-00-00
LTO-3 (400/800GB) SCSI External Tape Drive (with one SCSI cable VHD to VHD, no Media)		x	x							SDV-LT03-XX-01
LTO-4 (800/1600GB) SAS Full-Height Internal Tape Drive (1x Media, 1x Cleaning Kit)					x					SDV-LT04-XX-02
Internal Tape Drive SCSI AIT-2 Turbo 80/200GB (5"1/4 or 3"1/2)				x	x			x		ADT-8012-00-00
Internal Tape Drive SCSI AIT-2 Turbo 80/200GB (5"1/4 or 3"1/2)										ADT-8012-00-BB
Internal Tape Drive AIT-3ex 150/300GB SCSI (3"1/2 or 5"1/4)				x	x			x		ADT-1540-00-00
Internal Tape Drive AIT-3ex 150/300GB SCSI (3"1/2 or 5"1/4)			x							ADT-1540-00-B0

SERVER OPTIONS - 5/7

Description	SI1520	SI1720	120Eh-2	120Ei	120Lj	SI1120R-1	120Rh-1	120Rj-2	R140a-4	NEC References (Customer installable)
Backup Devices										
DLT-V4 Data Cartridge (160GB, 1 pack)	x	x								AIP-3200-00-00
DLT-V4 Data Cartridge (160GB, 5 pack)	x	x								AIP-3200-50-00
DLT-V4 Cleaning Cartridge (1 pack)	x	x								AIP-3201-00-00
1-Pack Blank cartridge DAT160	x	x	x	x	x			x		AIP-1610-00-00
5-Pack Blank cartridge DAT160	x	x	x	x	x		x	x		AIP-1610-50-00
1-Pack Cleaning cartridge DAT160	x	x	x	x	x		x	x		AIP-1611-00-00
1 pack x 80GB Cartridge for GoVault	x	x								AIP-G080-00-00
1 pack x 160GB Cartridge for GoVault	x	x	x							AIP-G160-00-00
GoVault Data Cartridge (320GB, 1 pack)	x	x	x							AIP-G320-00-00
Cartridge AIT-E 20GB no MIC : 1 pack										AIP-0023-00-00
Cartridge AIT-E 20GB no MIC : 5 pack										AIP-0023-50-00
Cartridge AIT-1 Turbo 40GB no MIC : 1 pack										AIP-0041-00-00
Cartridge AIT-1 Turbo 40GB with MIC : 1 pack			x							AIP-0041-00-IC
Cartridge AIT-1 Turbo 40GB no MIC : 5 pack										AIP-0041-50-00
Cartridge AIT-1 Turbo 40GB with MIC : 5 pack			x							AIP-0041-50-IC
Cartridge AIT-2 Turbo 80GB no MIC : 1 pack								x		AIP-0081-00-00
Cartridge AIT-2 Turbo 80GB with MIC : 1 pack			x	x	x			x		AIP-0081-00-IC
Cartridge AIT-2 Turbo 80GB no MIC : 5 pack			x					x		AIP-0081-50-00
Cartridge AIT-2 Turbo 80GB with MIC : 5 pack			x	x	x			x		AIP-0081-50-IC
Cleaning cartridges AIT (AIT-E/1/2/3/Turbo): 1 pack			x					x		AIP-0082-00-00
Cleaning cartridges LTO1 and 2: 1 pack			x	x	x					AIP-2111-00-00
Cartridges LTO2: 1 pack			x	x	x					AIP-4110-00-00
Cartridges LTO2: 5 pack				x	x					AIP-4110-50-00
cartridges LTO3: 1 pack				x	x					AIP-8110-00-00
cartridges LTO3: 5 pack				x	x					AIP-8110-50-00
1 pack Cleaning cartridge DDS4/DAT72	x	x	x	x	x					AIP-4011-00-00
1 pack Blank cartridge DAT72	x	x	x	x	x			x		AIP-7210-00-00
1 pack AIT-3 Ex cartridge 150GB			x	x	x			x		AIP-0150-00-IC
5 pack AIT-3 Ex cartridge 150GB			x	x	x			x		AIP-0150-50-IC
1-Pack Blank cartridge LTO4 xxx					x					MED-LT04-DC-11
5-Pack Blank cartridge LTO4 xxx					x					MED-LT04-DC-15
SAS Internal Data Cable for tapes					x					NC

SERVER OPTIONS - 6/7

Description	SI1520	SI1720	120Eh-2	120Ei	120Lj	SI1120R-1	120Rh-1	120Rj-2	R140a-4	NEC References (Customer installable)
NETWORK & COMMUNICATION										
PCIe X1 Gigabit Ethernet Intel Pro/1000PT(Copper) 2 brackets	x	x	x	x	x	x	x	x		ALN-0424-00-00
PCIe X4 Dual Port Gigabit Ethernet Intel Pro/1000PT (Copper) FH	x	x	x	x	x	x	x	x	x	ALN-0622-00-00
64 bit PCI Gigabit Ethernet Intel PRO/1000 MT (Copper)							x			ALN-0423-00-00
64 bit PCI Dual Port Gigabit Ethernet Intel PRO/1000 MT (Copper)			x							ALN-0621-00-00
64 bit PCI Gigabit Ethernet Intel PRO/1000 MF Server Adapter (Fiber) FH					x		x	x		ALN-0413-00-00
Intel PRO/1000 PT Quad Port Gigabit Copper NIC (4x 10/100/1000, 4x RJ45, PCI-Express X4, AFT/ALB) dual bracket				x	x		x	x	x	ALN-0820-00-00
Intel PRO/1000 GT Dual Port Gigabit Copper NIC (2x 10/100/1000, 2x RJ45, PCI 64-bit)								x		ALN-0623-00-00
LAN Controller : Pro1000PF PCIe-4x-LP 10/100/1000 AFT LC									x	NC
Servers Management										
NEC Dianascope - Activation Keys			x	x	x		x	x	x	NUL-DS00-00-00
NEC DianaScope Remote Management Software, License Pack for 10 remote servers							x	x	x	NUL-DS10-00-00
KVM & Remote Media Software - Activation Keys (1 License)										NUL-DSRM-00-00
ESMPRO Agent and Manager (1 license, Windows 2003 R2 32bit only)	x	x				x				NUL-ESMP-00-00
NEC System Area Manager (1-license pack enabling supervising one server remotely)	x	x				x				SAM-0001-0S-00
NEC System Area Manager (5-license pack enabling supervising one server remotely)	x	x				x				SAM-0005-0S-00
NEC System Area Manager (10-license pack enabling supervising one server remotely)	x	x				x				SAM-0010-0S-00
NEC System Area Manager (20-license pack enabling supervising one server remotely)	x	x				x				SAM-0020-0S-00
NEC System Area Manager (1-license pack enabling supervising one server remotely)			x	x	x		x	x		MEDSAM1LXX99902
NEC System Area Manager (5-license pack enabling supervising one server remotely)				x	x		x	x		MEDSAM5LXX99902
NEC System Area Manager (10-license pack enabling supervising one server remotely)				x	x		x	x		MEDSAM10LX99902
NEC System Area Manager (20-license pack enabling supervising one server remotely)				x	x		x	x		MEDSAM20LX99902
Redundant Power Supply										
Hot Plug Power Supply Unit 650W PFC		x	x							APM-0470-EU-00
Hot Plug Power Supply Unit 650W PFC							x			APM-0490-EU-00
Hot Plug Power Supply Unit 750W PFC								x		APM-0480-EU-00
Hot Plug Power Supply Unit 750W PFC				x	x					APM-0520-EU-00
Uninterruptible Power Supply units										
UPS : SU750I 230V 750VA USB	x	x								ABA-0750-00-00
APC Smart-UPS 1000VA Tower Model (230V, 8x 10A Outlets, USB or Serial Management, PowerChute Software)	x	x								ABA-1000-00-00
APC Smart-UPS 1500VA 2U Rack Model (230V, 4x 10A Outlets, USB or Serial Management, PowerChute Software)							x	x	x	ABA-1520-00-00
APC Smart-UPS 3000VA 2U Rack Model (230V, 8x 10A + 1x 16A Outlets, USB or Serial Management, PowerChute Software)									x	ABA-3020-00-00
Smart UPS 230V 5000VA Rack Mount XLI									x	ABA-5010-00-00
8-Port Share-UPS Interface Expander 1U Rack Model									x	AEX-2008-00-00
SmartSlot Interface Expander Card for 2 Server UPS Management									x	AEX-2200-00-00
Others (NB)										
SCSI cable kit for internal Media device support (68-pin, 7 connectors)	x	x								ACN-0027-00-30
Internal SATA cable for LSI8708EM2	x					x				CBL-INST-XX-00
NVIDIA® Quadro NVS 290 (256MB G-DDR2, 1x DMS-59, 1x Dual DVI-I Adapter + 1x Dual VGA Adapter, PCI-Express X1, SFF)	x									AVI-0164-BU-00
SCSI cable for internal Tape connect (68 pins HD)			x	x	x					ACN-0039-00-00
SCSI cable for internal Tape connect (68 pins HD)								x		ACN-0045-00-00
SCSI cable for internal Tape connect								x	x	ACN-0046-00-00
USB cable for internal Tape connect									x	ACN-0047-00-00
Additional serial port with cable (DB9, 30cm)										AIF-5500-00-07
32 bit PCI Serial -Parallel port controller (3.3V)										AIF-0110-00-00
105T **Keyboard** + Mouse							x	x		AIP-0010-**-00
Cable Arm kit (One Touch Rails compatible only)									x	AZA-4040-00-00
Cable Arm kit (One Touch Rails compatible only)							x	x		AZA-4033-00-00
Cluster InterNode 10/100/1000Mbps Heartbeat Cable (5m, RJ45 Connectors, Red)										ACN-0110-00-00
UPS Network Management Card (Web/SNMP Interface)									x	AEX-2031-00-00

*** = Country codes: BB=British, FF=French, DD=German, TT=Italian, EE=Spanish, PP=Portuguese, JJ=Dutch, SS=Swedish, AA=Danish, NN=Norwegian, UU=Euro/American, YB=Belgian/English, CF=Swiss/French, YF=Belgian/French, CD=Swiss/German, TU=Italian/American, YY=Belgian/Flemish*

(1) : remplace la riser board 3,3V fournie en standard

s = only server w = only workstation

SERVER OPTIONS - 7/7

Description	SI1520	SI1720	120Eh-2	120Ei	120Lj	SI1120R-1	120Rh-1	120Rj-2	R140a-4	NEC References (Customer installable)
PRELOAD SOFTWARE MICROSOFT (FACTORY INSALLABLE)										
Preload for Express5800 SBS2003 Series										
Preload Microsoft Windows SBS 2003 Standard Edition : 5 users	x	x	x	x	x	x	x			Factory-installable (4)
Preload for Express5800 NETWORK Series										
Preload Microsoft Windows Server 2003, Standard Edition : 5 users	x	x	x	x	x	x	x			Factory-installable (4)
Preload for Express5800 ENTERPRISE Series	x	x	x	x	x	x	x			
Preload Microsoft Windows Server 2003, Enterprise Edition : 25 users			x	x	x		x			Factory-installable (4)
Additional 5 Client Licenses for Microsoft Windows Small Business Server 2003 (EN)	x	x	x			x				NUL-SB03-00-01
Additional 5 Client Licenses for Microsoft Windows Small Business Server 2003 (FR)	x	x	x			x				NUL-SB03-00-02
Additional 5 Client Licenses for Microsoft Windows Small Business Server 2003 (GE)	x	x	x			x				NUL-SB03-00-03
Additional 5 Client Licenses for Microsoft Windows Small Business Server 2003 (SP)	x	x	x			x				NUL-SB03-00-04
Additional 5 Client Licenses for Microsoft Windows Small Business Server 2003 (IT)	x	x	x			x				NUL-SB03-00-06
Additional 5 Client Licenses for Microsoft Windows Server 2003 (EN)	x	x	x	x	x	x	x	x	x	NUL-SNET-00-01
Additional 5 Client Licenses for Microsoft Windows Server 2003 (FR)	x	x	x	x	x	x	x	x	x	NUL-SNET-00-02
Additional 5 Client Licenses for Microsoft Windows Server 2003 (GE)	x	x	x	x	x	x	x	x	x	NUL-SNET-00-03
Additional 5 Client Licenses for Microsoft Windows Server 2003 (SP)	x	x	x	x	x	x	x	x	x	NUL-SNET-00-04
Additional 5 Client Licenses for Microsoft Windows Server 2003 (IT)	x	x	x	x	x	x	x	x	x	NUL-SNET-00-06

(NB) : Preloads factory-installable can be ordered only during the purchase of a system Express5800.
***(1) Country Code/Pre-load language** :*
02,11,13, 50= French - 03,17= German - 04= Spanish - 06= Italian - 1,05,07,09,10,14,16,21,22,23,29,40,42= English
***(2) Country Code/Pre-load language** :*
02,11,13, 50= French - 03,17= German - 04= Spanish - 01,05,06, 07,09,10,14,16,21,22,23,29,40,42= English
***(3) Country Code/Pre-load language** :*
02,11,13, 50= French - 03,17= German - 04= Spanish - 05,14= Dutch - 06= Italian - 01,07,09,10,16,22,23,29,40,42= English
***(4) Pre-load language** :*
02 = French - 03 = German - 04 = Spanish - 06 = Italian - 01 = English
***(5) Pre-load language** :*
02 = French - 03 = German - 04 = Spanish - 01 = English

OPTIONS FOR DISCONTINUED SERVERS - 1/6

Description	SI1310	110Ek	120Eg	120Eh2	120Lh	120Li	SI1110R-1	120Rg-1	120Ri-2	140Rf-4	140Hf	140Re-4	NEC References (Customer installable)
PROCESSORS													
Xeon with FSB 800MHz													
Kit Xeon 2,8GHz / 2MB / FSB 800													APC-3140-1C-00
Kit Xeon 3,2GHz / 2MB / FSB 800													APC-3144-1C-00
Kit Xeon 2,8GHz / 2MB / FSB 800													APC-3141-1C-00
Kit Xeon 3,2GHz / 2MB / FSB 800													APC-3145-1C-00
Xeon Dual Core													
Kit Xeon® 5060 (3.2GHz/2x2MB/FSB 1066				o									APC-3560-1C-00
Kit Xeon 5110 1,6GHz / 4MB / FSB 1066													APC-3613-1C-00
Kit Xeon 5120 1,8GHz / 4MB / FSB 1066						o							APC-3623-1C-00
Kit Xeon 5130 2GHz / 4MB / FSB 1066						o							APC-3633-1C-00
Kit Xeon 5140 2,3GHz / 4MB / FSB 1333						o							APC-3643-1C-01
Kit Xeon 5150 2,66GHz / 4MB / FSB 1333						o							APC-3653-1C-01
Kit Xeon 5160 3,0GHz / 4MB / FSB 1333						o							APC-3663-1C-00
Kit Xeon 5110 1,6GHz / 4MB / FSB 1066								o					APC-3611-1C-00
Kit Xeon 5160 3,0GHz / 4MB / FSB 1333								o					APC-3661-1C-00
Kit Xeon 5110 1,6GHz / 4MB / FSB 1066									o				APC-3612-1C-00
Kit Xeon 5160 3,0GHz / 4MB / FSB 1333									o				APC-3662-1C-00
Xeon Quad-Core													
Kit Xeon 5310 1,6GHz / 2x4MB / FSB 1066								o	o				APC-3810-1C-00
Kit Xeon 5310 1,6GHz / 2x4MB / FSB 1066						o							APC-3812-1C-00
Kit Xeon 5310 1,6GHz / 2x4MB / FSB 1066									o				APC-3813-1C-00
Kit Xeon 5335 2,0GHz / 2x4Mo / FSB 1333								o	o				APC-3835-1C-00
Kit Xeon 5335 2,0GHz / 2x4MB / FSB 1333						o							APC-3837-1C-00
Kit Xeon 5335 2,0GHz / 2x4MB / FSB 1333									o				APC-3838-1C-00
Kit Xeon 5345 2,33GHz / 2x4MB / FSB 1333								o					APC-3845-1C-00
Kit Xeon 5345 2,33GHz / 2x4MB / FSB 1333						o			o				APC-3847-1C-00
Kit Xeon 5345 2,33GHz / 2x4MB / FSB 1333									o				APC-3848-1C-00
Xeon MP													
Kit Xeon MP 3,16GHz / 1MB / FSB 667												o	APC-3230-1C-00
Kit Xeon Dual Core 7030 2,8 GHz / 2x1MB / FSB 800											o	o	APC-3435-1C-00
Kit Xeon Dual Core 7041 3,0 GHz / 2x2MB / FSB 800											o	o	APC-3441-1C-00
Kit Xeon Dual-core 7110M 2,6GHz/ 4MB / FSB 800											o	o	APC-3710-1C-00
Kit Xeon Dual-core 7120M 3,0GHz/ 4MB / FSB 800											o	o	APC-3720-1C-00
Kit Xeon Dual-core 7130M 3,2GHz/ 8MB / FSB 800											o	o	APC-3730-1C-00
Kit Xeon Dual-core 7140M 3,4GHz/ 16MB / FSB 800											o	o	APC-3740-1C-00
Processeur Intel Xeon QuadCore E7420 2.13GHz 12MB 1066MHz										o			CPU-7420-EI-01
Processeur Intel Xeon QuadCore E7430 2.13GHz 8MB 1066MHz										o			CPU-7430-EI-01
Processeur Intel Xeon QuadCore E7440 2.4GHz 16MB 1066MHz										o			CPU-7440-EI-01
Processeur Intel Xeon QuadCore E7450 2.4GHz 12MB 1066MHz										o			CPU-7450-EI-01
Processeur Intel Xeon QuadCore X7460 2.66GHz 16MB 1066MHz										o			CPU-7460-XI-01
CPU ACCESSORIES													
Low noise cooling kit for one CPU (watercooled)						o							ACF-0110-00-00

OPTIONS FOR DISCONTINUED SERVERS - 2/6

Description	SI1310	110Ek	120Eg	120Eh2	120Lh	120Li	SI1110R-1	120Rg-1	120Ri-2	140Ri-4	140Hi	140Re-4	NEC References (Customer installable)
MEMORY													
SDRAM DDR2-533 ECC unbuffered : 256MB (1x256MB)													AMS-4602-00-00
SDRAM DDR2-533 ECC unbuffered : 512MB (1x512MB)													AMS-4605-00-00
SDRAM DDR2-533 ECC unbuffered : 1GB (1x1GB)													AMS-4610-00-00
SDRAM DDR2-533 ECC unbuffered : 512MB (1x512MB)													AMS-4606-00-00
SDRAM DDR2-533 ECC unbuffered : 1GB (1x1GB)													AMS-4611-00-00
SDRAM DDR2-533 ECC unbuffered : 2GB (1x2GB)													AMS-4621-00-00
Kit SDRAM DDR333 ECC Registered : 1GB (2x512MB)					o								AMS-4011-00-00
Kit SDRAM DDR333 ECC Registered : 2GB (2x1GB)			o		o								AMS-4020-00-00
Kit SDRAM DDR333 ECC Registered : 4GB (2x2GB)			o		o								AMS-4040-00-00
1GB FB DDR2 533 ECC Registered SDRAM (2x 512MB)				o									AMS-4710-00-00
2GB FB DDR2 533 ECC Registered SDRAM (2x 1GB)				o									AMS-4720-00-00
4GB FB DDR2 533 ECC Registered SDRAM (2x 2GB)				o									AMS-4740-00-00
1GB FBD DDR2 533 ECC Registered SDRAM (2x 512MB, PC2-4200)						o							AMS-4711-00-00
2GB FBD DDR2 533 ECC Registered SDRAM (2x 1GB, PC2-4200)						o							AMS-4721-00-00
4GB FBD DDR2 533 ECC Registered SDRAM (2x 2GB, PC2-4200)						o							AMS-4741-00-00
8GB FBD DDR2 533 ECC Registered SDRAM (2x 4GB, PC2-4200)													AMS-4781-00-00
Kit SDRAM DDR2-400 ECC Registered : 1GB (2x512MB)													AMS-4312-00-00
Kit SDRAM DDR2-400 ECC Registered : 2GB (2x1GB)													AMS-4322-00-00
Kit SDRAM DDR2-400 ECC Registered : 4GB (2x2GB)													AMS-4342-00-00
SDRAM DDR2-400 ECC Registered : 1GB (2x512MB)											o	o	AMS-4310-00-00
SDRAM DDR2-400 ECC Registered : 2GB (2x1GB)											o	o	AMS-4320-00-00
SDRAM DDR2-400 ECC Registered : 4GB (2x2GB)											o	o	AMS-4340-00-00
SDRAM DDR2-400 ECC Registered : 8GB (2x4GB)											o	o	AMS-4380-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 1GB (2x 512MB)										o			AMS-4912-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 2GB (2x 1GB)										o			AMS-4922-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 4GB (2x 2GB)										o			AMS-4942-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 8GB (2x 4GB)										o			AMS-4982-00-00
SDRAM DDR2-667 ECC unbuffered : 512MB (1x512MB)	o					o							AMS-4806-00-00
SDRAM DDR2-667 ECC unbuffered : 1GB (1x1GB)	o					o							AMS-4811-00-00
SDRAM DDR2-667 ECC unbuffered : 2GB (1x2GB)	o					o							AMS-4821-00-00
SDRAM DDR2-667 ECC unbuffered : 512MB (1x512MB)		o											AMS-4807-00-00
SDRAM DDR2-667 ECC unbuffered : 1GB (1x1GB)		o											AMS-4812-00-00
SDRAM DDR2-667 ECC unbuffered : 2GB (1x2GB)		o											AMS-4822-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 1GB (2x 512MB)						o		o	o				AMS-4910-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 2GB (2x 1GB)						o		o	o				AMS-4920-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 4GB (2x 2GB)						o		o	o				AMS-4940-00-00
FBDIMM DDR2-667 ECC Registered SDRAM : 8GB (2x 4GB)						o		o	o				AMS-4980-00-00
CONTROLLERS													
SATA Controllers													
PCI 32 bits SATA 2 channel controller card (Adaptec 1205SA)			o										AIF-0599-00-00
SCSI Controllers (1)													
Carte contrôleur Adaptec 29320LPE SCSI U320 PCI Express										o			AIF-0602-00-00
64/32-bit PCI Ultra160 SCSI Single channel controller card low profile: internal: 1x68-pin U160, external: 1x68-pin VHD		o	o		o	o		o	o		o	o	AIF-0594-00-00
PCIe RAID 8-ch external controller card 256MB cache (LSI 8480 with drivers)						o				o		o	AIF-0696-00-00
64-bit PCI Ultra320 SCSI Single channel controller card: internal: 1x68-pin U320, external: 1x68-pin U320 VHD		o	o			o		o	o		o		AIF-0597-00-00
RAID SATA Controllers													
SuperTrak EX4350: SATA-2 RAID card 4 channel (PCI-Express X4,64MB cache, RAID0,1,5,10,50)		o					o	o					AIF-0680-00-00
SuperTrak EX4350: SATA-2 RAID card 4 channel (PCI-Express X4,64MB cache, RAID0,1,5,10,50)						o							AIF-0680-00-10
SuperTrak EX8350: SATA-2 RAID card 8 channel (PCI-Express X4,128MB cache, RAID0,1,5,6,10,50)		o		o				o	o				AIF-0679-00-00
Battery backup for AIF-0679-00-00		o				o			o				APM-0679-00-00

OPTIONS FOR DISCONTINUED SERVERS - 3/6

Description	SI1310	110Ek	120Eg	120Ei2	120Lh	120Li	SI1110R-1	120Rg-1	120Ri-2	140Rf-4	140Hf	140Re-4	NEC References (Customer instal-lable)
RAID Ultra320 PCI controllers 64bits mono-channel													
SecuRAID 114 : Ultra320 SCSI RAID card PCI 64 bits mono-channel (mode 0,1,5,10, 50), 64MB of cache, with drivers and documentation			o		o								AIF-0687-00-64
Battery Backup for AIF-0687													APM-0687-00-LP
Battery Backup for AIF-0687			o		o								APM-0687-00-00
RAID SAS Controllers													
PCIe RAID ZCR controller card 128MB cache (LSI 8300XLP with drivers)						o		o	o				AIF-0689-00-00
PCIe RAID 8-ch controller card 256MB cache (LSI 8408 with drivers)		o				o		o	o				AIF-0695-00-00
PCIe RAID 8-ch external controller card 256MB cache (LSI 8480 with drivers)						o			o		o		AIF-0696-00-00
PCIe RAID 4-ch controller card 64MB cache (Promise EX4650 with drivers)		o											AIF-0691-00-00
Battery Backup for AIF-0689 (Megaraid LSI 8300XLP)						o		o	o				APM-0689-00-00
Battery Backup for AIF-0695/696 (MegaraidSAS 8480E ou 8408E)		o				o		o	o	o			APM-0695-00-00
Battery de secours pour ROMB140xx										o			APM-1410-00-00
Battery Backup for AIF-0691 (Promise EX4650)		o											APM-0691-00-00
RAID Ultra320 PCI Controllers 64bits bi-channel													
SecuRAID 321 : Ultra320 SCSI RAID card PCI 64 bits bi-channel (mode 0,1,5, 10, 50), sin cache, with drivers and documentation (NB : 1 kit RAM, To order necessarily among the below References)					o								AIF-0694-00-HU
					o								AMR-0412-00-00
Kit for AIF-0694 : RAM cache 256MB ECC			o		o								AMR-0425-00-00
Battery Backup for AIF-0694													APM-0694-00-1U
Battery Backup for AIF-0694													APM-0694-00-00
Fiber Channel Controllers													
PCI 64 bits Fibre Channel controller card 2Gb optical (Emulex LP1050 with drivers)			o		o	o		o	o		o	o	AIF-0710-00-00
PCIe 64 bits Fibre Channel controller card 4Gb optical (Emulex LPe1150 with drivers)						o		o	o	o	o	o	AIF-0714-00-00
PCIe Dual Port 64 bits Fibre Channel controller card 4Gb optical (Emulex LPe11002 with drivers)						o		o	o	o	o	o	AIF-0716-00-00
HARD DISK DRIVES													
SATA HARD DISK DRIVES													
74GB SATA HDD (10Krpm, 16MB)		o				o			o				ADH-5741-00-00
150GB SATA HDD (10Krpm, 16MB)		o				o			o				ADH-5151-00-00
74GB SATA HDD (10Krpm, 16MB)				o			o						ADH-5745-00-00
150GB SATA HDD (10Krpm, 16MB)				o			o						ADH-4152-00-00
80GB SATA2 HDD (7,2 Krpm, 1")			o					o					ADH-4801-00-07
160GB SATA2 HDD (7,2 Krpm, 1")			o					o					ADH-4161-00-10
250GB SATA2 HDD (7,2 Krpm, 1")			o					o					ADH-4251-00-07
160GB SATA2 HDD (7,2 Krpm, 1", 8MB)													ADH-5162-00-00
250GB SATA2 HDD (7,2 Krpm, 1", 8MB)													ADH-5252-00-00
80GB SATA2 HDD (7,2 Krpm, 1", 8MB)		o											ADH-5801-00-00
160GB SATA2 HDD (7,2 Krpm, 1", 8MB)		o											ADH-5161-00-00
500GB SATA2 HDD (7,2 Krpm, 1", 8MB)		o											ADH-5251-00-00
500GB SATA2 HDD (7,2 Krpm, 1", 8MB)		o						o	o				ADH-5501-00-00
750GB SATA2 HDD (7,2 Krpm, 1", 8MB)		o											ADH-5751-00-00
500GB SATA2 HDD (7,2 Krpm, 1", 8MB)													ADH-5502-00-00
80GB SATA2 HDD (7,2 Krpm, 1", 8MB)													ADH-4801-00-20
160GB SATA2 HDD (7,2 Krpm, 1", 8MB)													ADH-4161-00-10
80GB SATA2 HDD (7,2 Krpm, 1", 8MB)							o						ADH-5807-00-00
160GB SATA2 HDD (7,2 Krpm, 1", 8MB)							o						ADH-5167-00-00
250GB SATA2 HDD (7,2 Krpm, 1", 8MB)							o						ADH-5257-00-00
500GB SATA2 HDD (7,2 Krpm, 1", 8MB)							o						ADH-5507-00-00
SCSI fixes 10Krpm													
146GB Ultra320 HDD (10krpm, 1")													BDH-1141-00-07
73GB Ultra320 HDD (10krpm, 1")	o												BDH-1741-00-17
146GB Ultra320 HDD (10krpm, 1")	o												BDH-1141-00-17
73GB Ultra320 HDD (10krpm, 1")			o										BDH-1741-00-10
73GB Ultra320 HDD (10krpm, 1")			o										BDH-1741-00-00
Hot Plug 73GB U320 SCSI HDD (10krpm, 1") (2)				o									BDH-1745-00-00

OPTIONS FOR DISCONTINUED SERVERS - 4/6

Description	SI1310	110Ek	120Eg	120Eh2	120Lh	120Li	SI1110R-1	120Rg-1	120Ri-2	140Ri-4	140Hi	140Re-4	NEC References (Customer installable)
SCSI Hot-Plug 10krpm													
Hot Plug 300GB U320 SCSI HDD (10krpm, 1") (2)	o			o									BDH-1322-00-00
Hot Plug 300GB U320 SCSI HDD (10krpm, 1") (2)				o									BDH-1325-00-00
Hot Plug 146GB U320 SCSI HDD (10krpm, 1") (2)				o									BDH-1125-00-00
Hot Plug 73GB U320 SCSI HDD (10krpm, 1") (2)				o									BDH-1725-00-00
Hot Plug 146GB U320 SCSI HDD (10krpm, 1") (2)				o									BDH-1145-00-00
Hot Plug 73GB U320 SCSI HDD (10krpm, 1")													BDH-1721-00-17
Hot Plug 146GB U320 SCSI HDD (10krpm, 1")													BDH-1121-00-17
Hot Plug 73GB U320 SCSI HDD (10krpm, 1") (2)			o		o								BDH-1721-00-00
Hot Plug 146GB U320 SCSI HDD (10krpm, 1") (2)			o		o								BDH-1121-00-00
Hot Plug 300GB U320 SCSI HDD (10krpm, 1") (2)			o		o								BDH-1321-00-00
Hot Plug 73GB U320 SCSI HDD (10krpm, 1")													BDH-1771-00-00
Hot Plug 146GB U320 SCSI HDD (10krpm, 1")													BDH-1171-00-00
SCSI Hot Plug 15krpm													
Hot Plug 73GB U320 SCSI (15krpm, 1") (2)				o									BDH-2725-00-00
Hot Plug 146GB U320 SCSI (15krpm, 1") (2)				o									BDH-2125-00-00
Hot Plug 73GB U320 SCSI (15krpm, 1") (2)													BDH-2771-00-00
Hot Plug 73GB U320 SCSI (15krpm, 1") (2)			o		o								BDH-2721-00-00
Hot Plug 146GB U320 SCSI (15krpm, 1") (2)			o		o								BDH-2121-00-00
SAS Hot-Plug 15k tpm													
Hot Plug 36GB SAS HDD (15krpm, 1") (2)		o				o		o	o		o	o	BDH-2691-00-00
Hot Plug 73GB SAS HDD (15krpm, 1") (2)		o				o		o	o		o	o	BDH-2791-00-00
Hot Plug 146GB SAS HDD (15krpm, 1") (2)		o				o		o	o		o	o	BDH-2191-00-00
Hot Plug 300GB SAS HDD (15krpm, 1") (2)		o				o		o	o		o	o	BDH-2391-00-00
Disque Hot Plug 36Go SAS 15K tpm, 2.5"										o			BDS-2692-00-00
Disque Hot Plug 73Go SAS 15K tpm 2.5"										o			BDS-2792-00-00
Disque Hot Plug 146GB SAS 10K 2.5										o			BDS-1192-00-00
Disque Hot Plug 73GB SAS 10K 2.5										o			BDS-1792-00-00
Hard Disk Drives Accessories													
Hot-Plug carrier only (for open bay)					o								ADH-3861-00-00
Optional 5-drive Hot-swap Ultra SCSI 1" HDD cage (with carriers)													AZA-3662-00-00
Optional 8-drive Hot-swap Ultra SCSI 1" HDD cage (with carriers)													AZA-3821-00-00
Optional 8-drive Hot-swap Ultra SCSI 1" HDD cage (with carriers)						o							Factory-installable
Optional 8-drive Hot-swap Ultra SCSI 1" HDD cage (with carriers)											o		AZA-3891-00-00
Cable Arm kit (with sliding rails)							o						AZA-1110-00-00
5U Rack Mount Kit for Express5800/120Li						o							NZA-1223-00-00
Kit Rack 5U		o											NZA-1224-00-00
Front Bezel for Tower model (NEC)						o							NZA-1287-00-00
Dust Filters (10 pieces)						o							ACF-0120-00-00
Additional 4 HDD SAS Cage						o							MCH-CAGE-X4-00
MEDIA PERIPHERALS													
Optical Devices													
Internal EIDE DVD ROM 48X/16X	o	o				o					o		Factory-installable
Internal EIDE DVD ROM 48X/16X: Low profile								o	o				Factory-installable
Internal EIDE DVDR+9 +/- 16x10x40x12x 4x2x2x2x	o	o				o					o		Factory-installable
Internal Slim EIDE DVDR+9 +/-							o	o	o				Factory-installable
3.5" 1.44MB External Floppy Disk Drive (USB1.1)		o				o							ADF-0100-00-UB
3.5" 1.44MB External Floppy Disk Drive (USB1.1)										o			ADF-0102-00-UB
Tape Backup (NB)(2)													
Internal Tape Drive DAT 35/90GB SCSI DDS-5 (DAT72) (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges		o	o		o					o		o	ADT-7210-00-00
DLT V4 (160/320GB) Internal Tape Drive (includes additional PCI 32bit SATA board, 1x data and 1x cleaning cartridges)	o												ADT-3200-00-B0
Internal Tape Drive DAT72 36/72GB SCSI (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges	o												ADT-7210-00-BB
Internal Tape Drive DAT72 36/72GB SCSI (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges		o				o			o				ADT-7210-00-U0
Internal Tape Drive DAT160 80/160GB SCSI (baie 5"1/4 ou 3"1/2), 1x data and 1x cleaning cartridges		o				o				o			ADT-1610-00-00

OPTIONS FOR DISCONTINUED SERVERS - 5/6

Description	SI1310	110Ek	120Eg	120Eh2	120Lh	120Li	SI1110R-1	120Rg-1	120Ri-2	140Rf-4	140Hf	140Re-4	NEC References (Customer installable)
Internal Tape Drive AIT-3 100/260GB SCSI (baie 3"1/2 or 5"1/4) with cartridges													ADT-1026-00-00
Internal Tape Drive SCSI AIT-1 Turbo 40/100GB (5"1/4 or 3"1/2)		o	o									o	ADT-4012-00-00
Internal Tape Drive IDE AIT-1 Turbo 40/100GB (5"1/4 or 3"1/2)		o										o	ADT-4012-00-ID
Internal Tape Drive SCSI AIT-1 Turbo 40/100GB (5"1/4 or 3"1/2)	o												ADT-4012-00-BB
Internal Tape Drive AIT-3ex 150/300GB SCSI (3"1/2 or 5"1/4) with cartridges						o			o		o	o	ADT-1540-00-00
Internal Tape Drive SCSI AIT-2 Turbo 80/200GB (5"1/4 or 3"1/2)		o	o									o	ADT-8012-00-00
Internal Tape Drive SCSI AIT-2 Turbo 80/200GB (5"1/4 or 3"1/2)		o				o			o		o		ADT-8112-00-00
Internal Tape Drive AIT-3 100/260GB SCSI (3"1/2 or 5"1/4), with cartridges			o								o		ADT-1026-00-00
Internal Tape Drive LTO2 200/400GB SCSI (baie 5"1/4), 1x data and 1x cleaning cartridges		o	o			o				o			ADT-4112-00-00
Internal Tape Drive LTO2 200/400GB SCSI (baie 5"1/4), 1x data and 1x cleaning cartridges	o												ADT-4112-00-BB
Internal Tape Drive LTO3 400/800GB SCSI (baie 5"1/4), 1x data and 1x cleaning cartridges			o			o							ADT-8110-00-00
Internal Tape Drive LTO3 400/800GB SCSI (baie 5"1/4), 1x data and 1x cleaning cartridges						o				o			ADT-8115-00-00
Cartridges													
DLT-V4 Data Cartridge (160GB, 1 unité)	o												AIP-3200-00-00
DLT-V4 Data Cartridge (160GB, 5 unités)	o												AIP-3200-50-00
DLT-V4 Cleaning Cartridge (1 unité)	o												AIP-3201-00-00
Cartridge AIT-1 Turbo 40GB no MIC : 1 pack		o											AIP-0041-00-00
Cartridge AIT-1 Turbo 40GB with MIC : 1 pack		o											AIP-0041-00-IC
Cartridge AIT-2 Turbo 80GB no MIC : 1 pack		o											AIP-0081-00-00
Cartridge AIT-2 Turbo 80GB with MIC : 1 pack		o				o			o				AIP-0081-00-IC
Cartridge AIT-2 Turbo 80GB no MIC : 5 pack									o				AIP-0081-50-00
Cartridge AIT-2 Turbo 80GB with MIC : 5 pack						o			o				AIP-0081-50-IC
AIT cleaning cartridges (AIT-E/1/2/3/Turbo): 1 pack		o							o				AIP-0082-00-00
LTO1 and 2 cleaning cartridges : 1pack		o				o							AIP-2111-00-00
LTO2 Cartridge : 1 pack		o				o							AIP-4110-00-00
LTO2 Cartridge : 5 pack						o							AIP-4110-50-00
LTO3 Cartridge : 1 pack						o					o		AIP-8110-00-00
LTO3 Cartridge : 5 pack						o							AIP-8110-50-00
1 pack Cleaning cartridge DDS4/DAT72	o	o				o							AIP-4011-00-00
1 pack Blank cartridge DAT72	o	o				o			o				AIP-7210-00-00
1 pack AIT-3 Ex cartridge 150GB						o			o				AIP-0150-00-IC
5 pack AIT-3 Ex cartridge 150GB						o			o				AIP-0150-50-IC

(NB) : When you add a tape drive in a server, it is necessary to add the adequate controller SCSI and\or the cable

(1) : Do not work in Novell environment

NETWORK & COMMUNICATION													
1Gigabit PCI 32bits Ethernet Card (Intel PRO/1000MT Adapter)													ALN-0420-00-00
1 Gigabit PCI-X 64bits Ethernet Card (Intel PRO/1000 XT Server Adapter)													ALN-0422-00-00
64 bit PCI Dual Port Gigabit Ethernet Intel PRO/1000 MT (Copper)					o								ALN-0621-00-00
64 bit PCI Gigabit Ethernet Intel PRO/1000 F Server Adapter (Fiber)					o								ALN-0412-00-00
64 bit PCI Dual Port Gigabit Ethernet Intel PRO/1000 MT (Copper) LP													ALN-0621-00-LP
1 Gigabit PCI 64bits Ethernet LP : Fibre (Intel PRO/1000MF Server Adapter)						o		o	o		o	o	ALN-0413-00-00
64 bit PCI Gigabit Ethernet Intel PRO/1000 MT (Copper)		o										o	ALN-0423-00-00
PCIe X1 Gigabit Ethernet Intel Pro/1000PT(Copper) 2 brackets	o	o				o		o	o		o	o	ALN-0424-00-00
PCIe X4 Dual Port Gigabit Ethernet Intel Pro/1000PT (Copper) FH	o	o				o		o	o	o	o	o	ALN-0622-00-00
Intel PRO/1000 PT Dual Port Gigabit Copper NIC (2x 10/100/1000, 2x RJ45, PCI Express X4, ALB/AFT, Low Profile)								o					ALN-0622-00-LP
Intel PRO/1000 GT Dual Port Gigabit Copper NIC (2x 10/100/1000, 2x RJ45, PCI 64-bit)								o	o		o	o	ALN-0623-00-00
Intel PRO/1000 PT Quad Port Gigabit Copper NIC (4x 10/100/1000, 4x RJ45, PCI-Express X4, AFT/ALB) dual bracket						o				o			ALN-0820-00-00
LAN Controller : Pro1000PF PCIe-4x-LP 10/100/1000 AFT LC										o			NC

OPTIONS FOR DISCONTINUED SERVERS - 6/6

Description	SI1310	110Ek	120Eg	120Eh2	120Lh	120Li	SI1110R-1	120Rg-1	120Ri-2	140Ri-4	140Hi	140Re-4	NEC References (Customer installable)
Others													
Video card AGP8x 64MB : Nvidia 380XGL													AVI-0126-00-00
Video card AGP8x 128MB : Nvidia FX500													AVI-0127-00-00
Video card AGP8x 64MB : GeForce 4MX													AVI-0132-00-07
Video controller ATI ES1000 PCI (16MB SDRAM, RN50)		o				o		o	o				AVI-0156-00-00
SCSI cable kit for internal UW Media device support (68-pin, 7 connectors)	o	o											ACN-0027-00-30
SCSI cable for hot-swap HDD cage interconnect													ACN-0032-00-00
SCSI cable for External devices and external 68-pin HD connector													ACN-0034-00-00
SCSI cable for External devices and external 68-pin HD connector													ACN-0036-00-00
SCSI cable for hot-swap HDD cage interconnect													ACN-0037-00-00
SCSI cable for internal Tape connect (68 pins HD)			o			o							ACN-0039-00-00
SCSI cable for internal Tape connect (68 pins HD)									o				ACN-0045-00-00
Câble SCSI pour média interne (68 pins HD)										o			ACN-0046-00-00
Câble USB pour média interne (68 pins HD)										o			ACN-0047-00-00
Cluster inter-node heartbeat cable (RJ45, 4.5 meters)													ACN-0100-00-00
Cluster inter-node heartbeat cable (RJ45, 4.5 meters)			o		o			o			o		ACN-0110-00-00
Additional serial port with cable (DB9, 30cm)		o											AIF-5500-00-07
32 bit PCI Serial -Parallel port controller (3.3V)								o					AIF-0110-00-00
5V PCI riser board (3x full length PCI slots)(5)													AIF-0335-00-00
Redundant Fan kit			o										ACF-0104-00-00
2 Button Wheel Mouse			o										AIM-0300-00-00
Cable Arm kit (One Touch Rails compatible only)								o	o				AZA-4033-00-00
Cable Arm kit (One Touch Rails compatible only)													AZA-4040-00-00
Standard Keyboard (105 keys) + Mouse Pack			o					o	o				AIP-0010-**-00

*** = Country codes: BB=British, FF=French, DD=German, TT=Italian, EE=Spanish, PP=Portuguese, JJ=Dutch, SS=Swedish, AA=Danish, NN=Norwegian, UU=Euro/American, YB=Belgian/English, CF=Swiss/French, YF=Belgian/French, CD=Swiss/German, TU=Italian/American, YY=Belgian/Flemish*

(5) : replaces the standard 3.3V riser for full length PCI slots

Redundant Power Supply													
Hot Plug Power Supply Unit 450W PFC													APM-0330-EU-00
Hot Plug Power Supply Unit 600W PFC													APM-0430-EU-00
Hot Plug Power Supply Unit 570W PFC			o										APM-0410-EU-00
Hot Plug Power Supply Unit 700W PFC			o									o	APM-0440-EU-00
Hot Plug Power Supply Unit 570W PFC					o								APM-0410-EU-00
Hot Plug Power Supply Unit 525W PFC													APM-0420-EU-00
Hot Plug Power Supply Unit 600W PFC													APM-0420-EU-00
Hot Plug Power Supply Unit 730W PFC						o							APM-0500-EU-00
APC Smart-UPS 1500VA 2U Rack Model (230V, 4x 10A Outlets, USB or Serial Management, PowerChute Software)										o			ABA-1520-00-00
APC Smart-UPS 3000VA 2U Rack Model (230V, 8x 10A + 1x 16A Outlets, USB or Serial Management, PowerChute Software)										o			ABA-3020-00-00
Smart UPS 230V 5000VA Rack Mount XLI										o			ABA-5010-00-00
8-Port Share-UPS Interface Expander 1U Rack Model										o			AEX-2008-00-00
SmartSlot Interface Expander Card for 2 Server UPS Management										o			AEX-2200-00-00
UPS Network Management Card (Web/SNMP Interface)										o			AEX-2031-00-00
Servers Management													
NEC Dianascope - Activation Keys		o				o							NUL-DS00-00-00
NEC DianaScope Remote Management Software, License Pack for 10 remote servers										o			NUL-DS10-00-00
KVM & Remote Media Software Activation (1 License)						o							NUL-DSRM-00-00
PRELOAD SOFTWARE MICROSOFT (FACTORY INSALLABLE)													
Preload for Express5800 SBS2003 Series													
Preload Microsoft Windows SBS 2003 Standard Edition : 5 users	o	o					o						Factory-installable
Preload for Express5800 NETWORK Series													
Preload Microsoft Windows Server 2003, Standard Edition : 5 users	o	o				o	o	o	o		o		Factory-installable
Preload for Express5800 ENTERPRISE Series													
Preload Microsoft Windows Server 2003, Enterprise Edition : 25 users						o		o	o		o		Factory-installable
Additional 5 Client Licenses for Microsoft Windows Server 2003 (EN)										o			NUL-SNET-00-01
Additional 5 Client Licenses for Microsoft Windows Server 2003 (FR)										o			NUL-SNET-00-02
Additional 5 Client Licenses for Microsoft Windows Server 2003 (GE)										o			NUL-SNET-00-03
Additional 5 Client Licenses for Microsoft Windows Server 2003 (SP)										o			NUL-SNET-00-04
Additional 5 Client Licenses for Microsoft Windows Server 2003 (IT)										o			NUL-SNET-00-06
Software : Single ComputerAssociates BrightStorARCserve r11.5forWindowsSBS 1-Gouv Product+1Y-support										o			NUT-C250-G0-00

NEC FLEXPOWER SOLUTION

Complete infrastructure solution for SMB
A robust business in a box.

[Power to perform more efficiently]

SIMPLE
Enjoy one integrated system with server, storage and networking capability, combined with enterprise software to manage businesses of every size.

FLEXIBLE
Increase capacity on demand with hot swappable compute and storage capabilities.

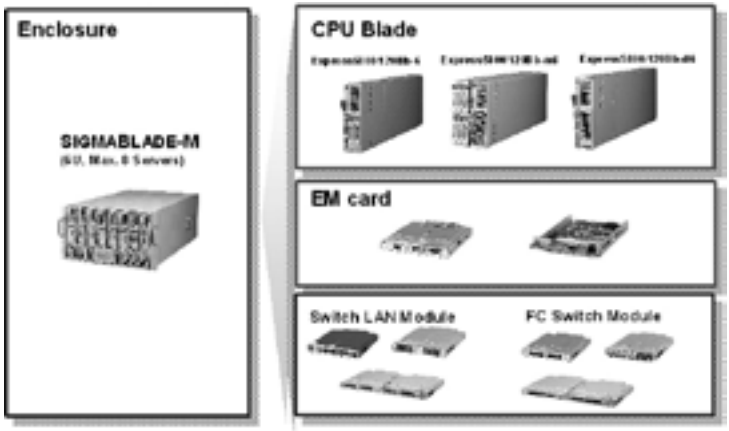
AN EXCEPTIONAL VALUE
Lower your costs with a server designed to fit your budget with many high-end features accessible to your business.

Description	
6U rack mount Chassis : - up to 6 blade servers ; up to 14 Hot Swap 2"5 drives - 2x Hot Swap Power Supplies ; Hot Swap redundants fans **2x Server Compute Modules :** - 1x Intel Xeon Quad Core E5405 (2nd optional) - 4GB FBD DDR2 ECC ; 2x Eth ports ; 1 free slot **Storage :** - 1x Control Module : Raid 0,1, 5 & 6 + BBU (2nd optional) - 6x 146GB SAS Hot Swap **Network :** - 1x Gigabit ETH Switch module (2nd module optional) **Management :** 1x Management Module **-** Installation & Full Managment software **Waranty :** 3 Years on site D+1	**NEC References : EC2NLDD-000AZ****

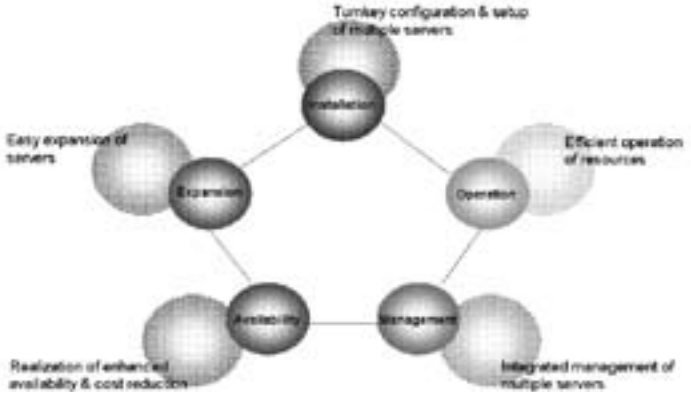
For localization add PKGNXXXXXX0**45, with ** = Country code :
01=British, 02=French, 03=German, 04=Spanish, 05=Dutch, 06=Italian, 07=Danish, 09=Swedish,10=Portuguese, 11=Swiss/French, 13=Belgian/French, 14=Belgian/Flemish, 16=Norwegian,17=Swiss/German, 22=Italian/American, 23=Euro/American, 40=Belgian/English

NEC EXPRESS5800
BLADE SERVER SOLUTIONS

A central core of mission-critical enterprise systems



BLADE Management NEC SigmaSystemCenter : Infrastructure Resource Management Software


Turnkey configuration & setup of multiple servers
Easy expansion of servers
Efficient operation of resources
Realization of enhanced availability & cost reduction
Integrated management of multiple servers

For more details on SigmaSystemCenter, please refer to the Management Solutions Section.

SERVERS AT A GLANCE
Blade Server Models

	Express5800/120Bb-6	Express5800/120Bb-m6	Express5800/120Bb-d6
PROCESSOR			
	Up to 2 Dual Core Intel Xeon 1.86GHz		
	Up to 2 Quad Core Intel Xeon from 2GHz to 3.16GHz	Up to 2 Quad Core Intel Xeon from 2GHz to 3.16GHz	Up to Quad Core Intel Xeon from 2GHz to 3.16GHz
ARCHITECTURE			
	Intel 5000p	Intel 5000p	Intel 5000p
	1066 to 1333MHz Front Side Bus (FSB)	1066 to 1333MHz Front Side Bus (FSB)	1066 to 1333MHz Front Side Bus (FSB)
MEMORY			
	16 GB DDR2 667 FB DIMM with ECC	48 GB DDR2 667 FB DIMM with ECC	48 GB DDR2 667 FB DIMM with ECC
	4 DIMMS	12 DIMMS	12 DIMMS
HARD DISK DRIVE			
	Up to 2 HDD SAS Hot plug SAS (2.5")	Up to 6 HDD SAS Hot plug SAS (2.5")	No HDD
	36/73/146 GB SAS 2.5" 10K /15K	36/73/146 GB SAS 2.5" 10K	
	Raid 0,1	Raid 0, 1, 5	
SLOTS			
	PCIe type 1 (x1)	PCIe type 1 (x2)	PCIe type 1 (x1)
	PCIe type 2 (x1)	PCIe type 2 (x2)	PCIe type 2 (x1)
GRAPHICS			
	Integrated into the chipset	Integrated into the chipset	Integrated into the chipset
	2MB video RAM	2MB video RAM	2MB video RAM
NETWORK INTERFACE			
	1000 BASE X (x 2)	1000 BASE X (x 4)	1000 BASE X (x 2)
	SUV Connector (Serial x1 VGA x1 USB x2)	SUV Connector (Serial x1 VGA x1 USB x2)	SUV Connector (Serial x1 VGA x1 USB x2)
WEIGHT			
	5.2 kg	5.6 kg	5.2 kg
OPERATING TEMPERATURE			
	10-35 °C	10-35 °C	10-35 °C
OS AND SOFTWARE			
	ESMPRO Server Manager (Manager/ Agent)	ESMPRO Server Manager (Manager/ Agent)	ESMPRO Server Manager (Manager/ Agent)
	Express Builder Set-up & Configuration software	Express Builder Set-up & Configuration software	Express Builder Set-up & Configuration software
	Dianascope Remote Management Software	Dianascope Remote Management Software	Dianascope Remote Management Software
	Certified OS	**Certified OS**	**Certified OS**
	Windows Server 2003 standard / R2	Windows Server 2003 standard / R2	Windows Server 2003 standard / R2
	Red Hat Enterprise Linux 4 / 5	Red Hat Enterprise Linux 4 / 5	Red Hat Enterprise Linux 4 / 5
	VMware Virtual Infrastructure 3/3.5	VMware Virtual Infrastructure 3/3.5	VMware Virtual Infrastructure 3/3.5
REGULATORY			
	CE compliant	CE compliant	CE compliant
WARRANTY & EXTENSIONS			
Standard	3 years On Site NB	3 years On Site NB	3 years On Site NB
Extensions	4 hour response, 8x5	4 hour response, 8x5	4 hour response, 8x5
	4 hour response, 24x7	4 hour response, 24x7	4 hour response, 24x7
	6 hour repair time commitment, 8x5	6 hour repair time commitment, 8x5	6 hour repair time commitment, 8x5
	Installation solutions	Installation solutions	Installation solutions

SERVERS AT A GLANCE

Blade Enclosure

SIGMABLADE-M

ENCLOSURE	
	6U Rack
BLADE	
	Up to 8 blades (Hot Plug)
SWITCH	
	Up to 6 switch modules
I/O INTERFACE	
	USB Port x 1
	PS/2 x 2, serial port x 1
	Display Connector D-Sub 15-pin x 1
	DVD-ROM x1
SWITCH MODULE OPTIONS	
	1 GB Intelligent L2 Switch
	1 G Pass-Through Card
	1GB Interlink Expansion Card
	4 GB FC Switch (12 port)
	FC Pass-Through Card
PHYSICAL SPECIFICATIONS	
	484.8 x 829 x 264.2 mm
POWER SUPPLY	
	Up to 4 Power Units
	5013 W max. comsumption
COOLING FANS	
	Up to 5 RHS fans
WEIGHT	
	110 Kg max.
WARRANTY & EXTENSIONS	
Standard	3 years on site NBD
Extensions	4 hour response, 8x5
	4 hour response, 24x7
	6 hour repair time commitment, 8x5
	Installation solutions

NEC BLADE SERVER SOLUTIONS
Models & options

A CENTRAL CORE OF MISSION-CRITICAL ENTERPRISE SYSTEMS

NEC's next-generation BladeServerSystem, SIGMABLADE, offers a choice of three CPU Blades and a high-density blade enclosure. The CPU Blade integrates main server functions into its board-shaped slim chassis, enabling efficient server consolidation and maintenance. The blade enclosure packs several of these CPU Blades, realizing a space-efficient system environment—without any cabling complexity—and allows easy system upgrading. Featuring the latest technology for its high-density architecture, the NEC BladeServerSystem enables space-efficient server consolidation and cost optimization for any size of business.

Further, the BladeServerSystem features integrated management middleware, SIGMASYSTEMCENTER, to improve system operability and reliability.

2 dual or quad core Intel Xeon CPUs
2.5" SAS Hot Plug HDDs
PCI-Express Cards

CPU BLADES

The latest Multi-core Intel Xeon processors and DIMMs slots to ensure a high level of performance

Description	Reference	Notes
Express5800/120Bb-6 :		
2 Hot Plug SAS HDD, RAID 0,1		
2 x 1000 base-x controllers		
Xeon 1.6GHz Xeon CPU Blade : 1x 5110 Xeon (1.6GHz/4MB/1066MHz) - 2GB DDR2-667 - 1x 73Go/10K Hot-plug SAS 2.5" (RAID 0,1) - 2 Ctrl Ethernet Gigabit bi-canal - 2 slots extension - Windows Server 2003 standard Ed, 5 CALs	EA3N9FF-0009E**	NP
Express5800/120Bb-m6 :		
6 Hot Plug SAS HDD, RAID 5		
4 x 1000 base-x controllers		
Xeon 1.6GHz Xeon CPU Blade: 1x Xeon 1.6GHz/4MB/1066MHz - 2GB DDR2-667 - 1x 73Go/10K Hot-plug SAS 2.5" (RAID 0,1) - 4 Ctrl Ethernet Gigabit bi-canal - 4 slots extension - Windows Server 2003 standard Ed, 5 CALs	EA3N9FH-0009E**	NP
Express5800/120Bb-d6 :		
6 DIMM		
4 x 1000 base-x controllers		
Xeon 1.6GHz Xeon CPU Blade: 1x Xeon 1.6GHz/4MB/1066MHz - 2GB DDR2-667 - - 4 Ctrl Ethernet Gigabit bi-canal - 4 slots extension	EA3N9FJ-0009Z**	NP

ENCLOSURE

Description	Reference	Notes
SIGMABLADE-M :		
Ideal for medium-sized enterprise systems		
6U Rack		
Up to 8x Express5800/120Bb-6 or 4x Express5800/120Bb-m6, & up to 6 Switchs.		
SIGMABLADE MBnitor (LCD) to indicate CPU Blade status for easier maintenance		
6U enclosure for CPU Blade : Slim DVD Rom, 1x 1500W Hot Plug power unit - no blade - no HDD - EM card - Pass-through 10-100-1000 LAN	NC	NP

NEC BLADE SERVER SOLUTIONS

Models & options

Description	Reference	Notes
PROCESSORS		
Intel® Xeon® Processor 5110 (1.6GHz/4MB/1066MHz)	APC-3614-1C-00	NP
Intel® Xeon® Processor 5160 (3.0GHz/4MB/1333MHz)	APC-3664-1C-00	NP
Intel® Xeon® Processor E5310 (1.6GHz/2x4MB/1066MHz)	APC-3814-1C-00	NP
Intel® Xeon® Processor E5335 (2.0GHz/2x4MB/1333MHz)	APC-3839-1C-00	NP
Intel® Xeon® Processor E5345 (2.33GHz/2x4MB/1333MHz)	APC-3849-1C-00	NP
Intel Xeon-QuadCore 2.66GHz /2x4MB /1333MHz Processor kit (X5355)	APC-3859-1C-00	NP
MEMORY		
2GB FBD DDR2-667 ECC Registered SDRAM (2x 1GB)	AMS-4923-00-00	NP
4GB FBD DDR2-667 ECC Registered SDRAM (2x 2GB, PC2-5300)	AMS-4943-00-00	NP
8GB FBD DDR2 667 ECC Registered SDRAM (2x 4GB, PC2-5300)	AMS-4983-00-00	NP
STORAGE CONTROLLERS		
Disk Controller : RAID-SAS SAS PCIe-8x 2	AIF-0685-00-00	NP
Disk Controller : FibreOptical Fibre PCIe-4x 2	AIF-0715-00-00	NP
STORAGE DRIVES		
2.5" SAS Hot Plug HDD (15k rpm)		
SAS Hard Disk Drive : 36GB 15Krpm 2.5"	HDD-3615-S2-00	NP
SAS Hard Disk Drive : 73GB 15Krpm 2.5"	HDD-7315-S2-01	NP
2.5" SAS Hot Plug HDD (10k rpm)		
SAS Hard Disk Drive : 146GB 10Krpm 2.5"	BDS-1190-00-00	NP
SAS Hard Disk Drive : 36GB 10Krpm 2.5"	BDS-1690-00-00	NP
SAS Hard Disk Drive : 73GB 10Krpm 2.5"	BDS-1790-00-00	NP
NETWORK AND COMMUNICATION		
LAN Controller : PCIe-4x-ATX 10/100/1000 AOL/WOL 2xRJ45	ALN-0425-00-00	NP
LAN Controller : PCIe-8x 10/100/1000 AOL/WOL 4xRJ45	ALN-0625-00-00	NP
MISCELLANEOUS		
Cabling : SUV VGA-USB-Serial	ACN-0825-00-00	NP

NEC BLADE SERVER SOLUTIONS

Enclosure Options

Designation	Reference	Notes
CHASSIS ACCESSORY		
Fan Sigma-M HotSwap	ACF-SG10-00-00	NP
FrontPanel	NZA-SG10-00-00	NP
SlotCover	NC	NP
LAN INFRASTRUCTURE		
LAN Pass-through : NEC SigmaBlade-M 16	AEX-3100-00-00	NP
1Gigabit Intelligent L2 Switch (16 downlink, 5 uplink , 2 crossconnect ports)	AEX-3216-00-00	NP
1Gigabit Intelligent L3 Switch (16 downlink , 5 uplink/4 optional 1000SX fiber ports, 2 crossconnect)	AEX-3316-00-00	NP
SAN INFRASTRUCTURE		
SAN Pass-through : NEC SigmaBlade-M 16	AEX-3400-00-00	NP
SFP : FC4GB PassThrough	AEX-3401-00-00	NP
SFP : FC4GB FCswitch	AEX-3402-00-00	NP
4GB Fibre Channel Switch 12-Port (8 internal, 4 external) no SFP	AEX-3412-00-00	NP
MANAGEMENT		
BMC Management Option : Blade EMcard Sigma-M	AEX-080M-00-00	NP
POWER		NP
2250 watts Hotswap Power Supply (set of 2 units)	NC	NP
1500w Hot-Swap Power Supply	APM-SG10-EU-00	NP

NEC EXPRESS5800
Fault Tolerant Server Solutions

High Availability for planned & unplanned downtime of mission critical applications

24/7 business operations and the need for an "always-on" computing infrastructure means that there is no time for downtime in business-critical and mission-critical applications. Customers are no longer just relying on simple server reliability, with downtime of up to 9 hours a year; they are demanding more uptime, challenging server suppliers to provide highly reliable systems at much lower price-points than ever before.

Fault Tolerant servers surpass the concept of high availability to enter the era of the «continuous availability». Such servers are designed to guarantee an availability of 99.999%, that is to say on average less than 5 minutes of unplanned interruption per year, including time necessary for repairs, updates, and general maintenance.

KEY BENEFITS

1 **BUSINESS CONTINUITY**

Total element redundancy

2 **EASY MAINTENANCE :**

Modular concept: each module can be identified, and easily extracted without calling upon particular expertise and requiring use of specific tools.

Simplified service

3 **STANDARD COMPONENTS AND SOFTWARE :**

The components (Processors, memory, hard disks, expander cards) used are the same ones as those found in a standard Intel server. Because of this, NEC is now able to offer fault tolerant solutions at a more reasonable price.

The Windows applications (Exchange, SQL server, SharePoint, etc...) used are identical to those installed on a standard server, therefore there is no need to modify them.

4 **ECONOMIC SOLUTION :**

Less expensive than a "cluster" based server

As there is only one copy of applications, there is no need for the server to be "cluster-aware"

Cost reduction compared to a standard system; reduced cost of immobilization.

OPTIMISE YOUR SOLUTION
with the Enterprise UltraCare NEC offer!
Please refer heading UltraCare p. 143

EXPRESS5800
Fault Tolerant Servers at a Glance

EXPRESS5800/320Fd-MR/LR

DESIGN	
Form factor	4U rack: **1 + 1 system modules (CPU-memory-IO)** **1 + 1 (3-drive) HDD modules**
PROCESSOR	***System module:***
Number of processors	1 or 2 (per CRU)
Type	**MR Model** : Processor Intel® Xeon® Quad-Core X5450 (3GHz) **LR model** : Processeur Intel® Xeon® Quad-Core E5405 (2GHz)
Slot type	
Integrated L1 cache	
L2 cache std / max / type	2x 6MB (MR Model)
Processor Front Side Bus speed	1333MHz
ARCHITECTURE	
Chipset	Intel 5000V + NEC Gemini Engine
MEMORY	
Memory Min/Max	2GB / 24GB
Type	DDR2-667 FBD ECC SDRAM 2-way interleaved
Memory slots	6 DIMM
I/O SLOTS	
I/O controller	
Bus slots	1x 64bit/133MHz PCI-X (LP) 1x 64bit/100MHz PCI-X (FH) 1x PCI Express x8 (FH), wired in 4x
Bus slots free	2 PCI-X, 1 PCI-e
MEDIA AND STORAGE	***Storage modules***
CD ROM drive	Slim DVD (standard)
Floppy Disk Drive	External USB drive
Hard Disk Drives SCSI 10 Krpm	
Hard Disk Drives SCSI 15 Krpm	
Hard Disk Drives SAS 15 Krpm	73GB, 146GB, 300GB
Maximum Internal Storage	900GB SAS (3x 300)
Storage Expansion Unit	Option
BAYS	
5.25» Media bays (total / free)	
3.5» Media bays (total / free)	
3.5» Hot Swap HDD bays	3-drive 1» (single access + mirroring)
VIDEO	
Video controller	on board ATI ES1000
Video memory std / max / type	32Mo

EXPRESS5800

Fault Tolerant Servers at a Glance

EXPRESS5800/320Fd-MR/LR

NETWORK	
Network interface controller	2x ports Gigabit Ethernet (per CRU)
SECURITY	
2 level passwords	Yes
Front door / Intrusion protection	Yes/ -
I/O PORTS	
USB ports	USB 2.0 x3
Serial port	2x (debug purpose only)
Parallel port	
SVGA video port	1 (total)
System Management	F-RMC
Ethernet port	2x RJ45 (per module)
External SCSI port	
POWER SUPPLY	
Power Supply Unit	650W, redundanct via CRU
Power supply numbers	2
VENTILATION	
System Fans	Redundant
Processor cooling	Air
PHYSICAL SPECIFICATIONS	
Size (HxWxD)	483 x 762 x 178mm
Weight	48kg - 53.50kg
Operating constraints	10 to 35° C, 20 to 80% RH
OS & SOFTWARE	
Management software	ESMPRO Server Manager
Install & Configuration software	ExpressBuilder
Logical Volume management software	Rapid Disk Resync
Operating System	Windows ServerTM 2003 R2 EE (32, 64 bits), Windows ServerTM 2008 EE (64 bits) (1) Red Hat® LinuxTM AP 5.2 (1) - VMware VI3.0.2 ft (1) - Parallels Virtuozzo 4.0 (1)»
WARRANTY	
Standard warranty	1 year Repair CRU D+10
SUPPORT CONTRACT	
	NEC UltraCare FT Service ADVANTAGE
	NEC UltraCare FT Service PREMIUM
	(cf Enterprise UltraCare offer)
REGULATORY & SAFETY	
Regulatory compliance	UL, CE
RECOMMENDED UPS	
	SU3000RM

FT REFERENCES - EXPRESS5800/320FT MODELS

Use the M@gic Configurator to configure your EXPRESS5800 Server System with factory-installed options

NEC references | Notes

HIGH PERFORMANCE FOR NON-STOP BUSINESS

EXPRESS5800/320Fd-MR

Server Windows/single processor

Fault Tolerant 4U rack Server, Dual Modular Redundant (DMR) : Quad Core Processor Xeon (2max) , up to 24GB DDR2-667 SDRAM, 3 SAS HDD, 2 PCI-X, 1 PCIex, embedded Dual Gigabit Ethernet, F-RMC, Windows 2003 Server R2 EE (32 & 64bit)

CHARACTERISTICS :

NEC EXPRESS5800/320Fd-MR Rack (4U) Model 1 for Windows: Single Xeon Quad Core E5450-3GHz/2x6MB/1333Mhz, F-RMC card , DVD RW, No RAM, no HDD

4GB (2x 2GB) DDR2-667 FBD Memory kit (2 Units)

73GB 15K SAS Hard Disk Drive (2x Units)

Windows Server 2003 R2 32bit SP2, Enterprise Edition (25 CALs, French)

NEC Ultracare FT Service BASIC - 1 AN

Natio Pack

EC1N4WG-000CF**

NEC UltraCare FT Basic Installation Service

NEC UltraCare FT Service Advantage 1 year

Server VMWare/dual processor

Fault Tolerant 4U rack Server, Dual Modular Redundant (DMR) : Quad Core Processor Xeon (2max) , up to 24GB DDR2-667 SDRAM, 3 SAS HDD, 2 PCI-X, 1 PCIex, embedded Dual Gigabit Ethernet, F-RMC, Windows 2003 Server R2 EE (32 & 64bit)

CHARACTERISTICS :

NEC EXPRESS5800/320Fd-MR Rack (4U) Model 1 for VMWare 3.0.2ft : Dual Xeon Quad Core E5450-3GHz/2x6MB/1333Mhz, DVD RW, No RAM, no HDD
4GB (2x 2GB) DDR2-667 FBD Memory kit (2 Units)

73GB 15K SAS Hard Disk Drive (2x Units)

VMWare VirtualCenter Management Server 2 for VMWare Infrastructure (1 year support)

NEC Ultracare FT Service BASIC - 1 AN

Natio Pack

NEC UltraCare FT Basic Installation Service

NEC UltraCare FT Service Advantage 1 year

EC1N4WP-000CZ**

EXPRESS5800/320Fd-LR

Server Linux/single processor

Fault Tolerant 4U rack Server, Dual Modular Redundant (DMR) : Quad Core Processor Xeon (2max) , up to 24GB DDR2-667 SDRAM, 3 SAS HDD, 2 PCI-X, 1 PCIex, embedded Dual Gigabit Ethernet, F-RMC, Windows 2003 Server R2 EE (32 & 64bit)

CHARACTERISTICS :

NEC EXPRESS5800/320Fd-LR Rack (4U) Model 1 for Linux: Single Xeon Quad Core E5405-2.0GHz 2x6MB 1333MHz , F-RMC card , DVD RW, No RAM, no HDD

4GB (2x 2GB) DDR2-667 FBD Memory kit (2 Units)

73GB 15K SAS Hard Disk Drive (2x Units)

NEC Ultracare FT Service BASIC - 1 AN

Natio Pack

EC1N4W8-000CZ**

NEC UltraCare FT Basic Installation Service

NEC UltraCare FT Service Advantage 1 year

*For localisation add PKGNNATIOX0**79, with ** = Country code :*

01=British, 02=French, 03=German, 04=Spanish, 05=Dutch, 06=Italian, 23=Euro/American

EXPRESS5800/320FT - OPTIONS

Use the M@gic Configurator to configure your EXPRESS5800 Server System with factory-installed options

Description	320Ft-MR/LR	NEC references Customer installable	Notes
MEMORY			
2GB (2x 1GB) DDR2 667 Registered SDRAM Memory kit (2 units)	x	AMS-4924-20-00	
4GB (2x 2GB) DDR2 667 Registered SDRAM Memory kit (2 units)	x	AMS-4944-20-00	
8GB (2x 4GB) DDR2 667 Registered SDRAM Memory kit (2 units)	x	AMS-4984-20-00	
HARD DISK DRIVES			
73GB 15K SAS Hard Disk Drive (2x Units)	x	BDH-2793-20-00	
146GB 15K SAS Hard Disk Drive (2x Units)	x	BDH-2193-20-00	
300GB 15K SAS Hard Disk Drive (2x Units)	x	BDH-2393-20-00	
SCSI CONTROLLERS (for Tape libraries)			
Adaptec 29320 SCSI U320 1-Channel Controller PCI 64-bit LP (1 Unit)	x	AIF-0601-00-LP	
4Gb Fibre Channel Controller, (PClex X8 Full Height , Emulex LPe1150) (DMR - set of 2)	x	AIF-0714-20-00	
NETWORK & COMMUNICATION			
Intel PRO/1000 MT Single Port Gigabit Copper LP NIC (1x 10/100/1000, 1x RJ45, AFT, PCI 64-bit) (DMR - Set of 2)	x	ALN-0423-20-LP	
Intel Pro1000MT PCI-ATX-64b 10/100/1000 WOL 2xRJ45 (2x units)	x	ALN-0623-20-00	
POWER			
APC Smart-UPS 1500VA 2U Rack Model (230V, 4x 10A Outlets, USB or Serial Management, PowerChute Software)	x	ABA-1520-00-00	
APC Smart-UPS 3000VA 2U Rack Model (230V, 8x 10A + 1x 16A Outlets, USB or Serial Management, PowerChute Software)	x	ABA-3020-00-00	
Smart UPS 230V 5000VA Rack Mount XLI	x	ABA-5010-00-00	
8-Port Share-UPS Interface Expander 1U Rack Model	x	AEX-2008-00-00	
UPS Network Management Card (Web/SNMP Interface)	x	AEX-2031-00-00	
SmartSlot Interface Expander Card for 2 Server UPS Management	x	AEX-2200-00-00	
SOFTWARE OPTIONS			
Red Hat Linux AS 5.2 (64 bit) Subscription Support, Premium - 3Years (24x7)	x	NC	
VMware Infrastructure 3.0.2ft update 1 Enterprise Edition (1 year support)	x	NC	
VMWare VirtualCenter Management Server 2 for VMWare Infrastructure (1 year support)	x	NC	
Red Hat Linux AS 5.2 (64 bit) Subscription Support , Standard -3 Years (12x5)	x	NC	
VMware VMotion 2 (1 year support)	x	NC	
VMware Infrastructure 3.0.2ft update 1 Standard Edition (1 year support)	x	NC	
VMware HA (1 year support)	x	NC	
Red Hat Linux AS 5.2 (64 bit) Subscription Support, Premium - 1Year (24x7)	x	NC	
VMware DRS 2 (1 year support)	x	NC	
Red Hat Linux AS 5.2 (64 bit) Subscription Support, Standard - 1Year (24x7)	x	NC	
VMware Infrastructure 3.0.2ft update 1 Fondation Edition (1 year support)	x	NC	
NEC Storage PathManager Software Version 4.X for Windows (English)	x	NUT-P30W-00-00	
Active Upgrade Software (for Windows Server 2003 32bit model)	x	MED-ACUP-32-00	
Active Upgrade Software (for Windows Server 2003 64bit model)	x	MED-ACUP-64-00	
NEC DianaScope (Remote Server Management Software, 1 License)	x	NUL-DSOO-00-00	

NEC ULTRACARE FT

See UltraCare Entreprise NEC offer

Options for Discontinued FT Servers

Use the M@gic Configurator to configure your Express5800 Server System with factory-installed options

M@gic Configurator

Description	320Fa	320Fb	320Fc	NEC references	Notes
				Customer installable	
MEMORY					
1GB (2x 512) DDR2 400 Registered SDRAM Memory kit (2 units)	x			AMS-4314-20-00	
2GB (2x 1GB) DDR2 400 Registered SDRAM Memory kit (2 units)	x			AMS-4324-20-00	
4GB (2x 2GB) DDR2 400 Registered SDRAM Memory kit (2 units)	x			AMS-4344-20-00	
1GB (2x 512) DDR2 533 Registered SDRAM Memory kit (2 units)		x		AMS-4614-20-00	
2GB (2x 1GB) DDR2 533 Registered SDRAM Memory kit (2 units)		x		AMS-4624-20-00	
4GB (2x 2GB) DDR2 533 Registered SDRAM Memory kit (2 units)		x		AMS-4644-20-00	
2GB (2x 1GB) DDR2 667 Registered SDRAM Memory kit (2 units)			X	AMS-4924-20-00	
4GB (2x 2GB) DDR2 667 Registered SDRAM Memory kit (2 units)			X	AMS-4944-20-00	
8GB (2x 4GB) DDR2 667 Registered SDRAM Memory kit (2 units)			X	AMS-4984-20-00	
HARD DISK DRIVES					
73GB Ultra320 80-pin SCSI HDD 15Krpm (1") (2x 73GB HDD)	x			BDH-2723-20-00	
146GB Ultra320 80-pin SCSI HDD 15Krpm (1") (2x 146GB HDD)	x			BDH-2123-20-00	
73GB Ultra320 80-pin SCSI HDD 10Krpm (1") (2x 73GB HDD)"		x		BDH-1723-20-00	
146GB Ultra320 80-pin SCSI HDD 10Krpm (1") (2x 146GB HDD)		x		BDH-1123-20-00	
300GB Ultra320 80-pin SCSI HDD 10Krpm (1") (2x 300GB HDD)		x		BDH-1323-20-00	
73GB Ultra320 80-pin SCSI HDD 15Krpm (1") (2x 73GB HDD)		x		BDH-2723-20-00	
73GB 15K SAS Hard Disk Drive (2x Units)			X	BDH-2793-20-00	
146GB 15K SAS Hard Disk Drive (2x Units)			X	BDH-2193-20-00	
300GB 15K SAS Hard Disk Drive (2x Units)			X	BDH-2393-20-00	
NETWORK & COMMUNICATION					
Intel PRO/1000 MT Dual Port Gigabit Copper Adapter LP (2 units)	x			ALN-0621-20-LP	
64-bit PCI Gigabit Ethernet Intel Pro/1000 MT Server Adapter Copper, Low Profile (2x units)		x		ALN-0423-20-LP	
64-bit PCI Gigabit Ethernet Intel Pro/1000 MF Server Adapter Fiber, Low profile (2x units)		x		ALN-0413-20-LP	
Intel PRO/1000 MT Dual Port Gigabit Copper LP NIC (2x RJ45, AFT, PCI 64-bit) (2x units)		x		ALN-0621-20-LP	
64-bit PCI Gigabit Ethernet Intel Pro/1000 MT Server Adapter Copper, Low Profile (2x units)			X	ALN-0423-20-LP	
Intel Pro1000MT PCI-ATX-64b 10/100/1000 WOL 2xRJ45 (2x units)			X	ALN-0623-20-00	
SCSI CONTROLLERS (for Tape libraries)					
1-channel U320 SCSI Controller (Adaptec 29320) low profile (2 units)	x	x		AIF-0597-20-00	
EXTERNAL TAPE EXPANSION (Rack)					
2U Rackmount Backup Tape Unit (BTU) w/ redundant Power (1x unit) (2)	x	x		NC	
Redundant power supply (customer instal)	x	x		APM-0272-EU-10	
3m 68-pin HD to VHD SCSI-3 data cable	x	x		ACN-0218-00-00	

(2) Can support up to four (2x2) HH tape drives (eg ADT-7210-00-00) - SCSI board connector (VHD)

Options for Discontinued FT Servers

Use the M@gic Configurator to configure your EXPRESS5800 Server System with factory-installed options

Description	320Fa	320Fb	320Fc	NEC references	Notes
				Customer installable	
MEDIA PERIPHERALS (Tape Expansion)					
36/72GB SCSI 4mm DAT 72 internal drive w/ blank cartridge & cleaning (1)	x	x		ADT-7210-00-00	
80/200GB SCSI AIT-2 Turbo Internal drive (5.25") w/ blank cartridge & cleaning (1)	x			ADT-8012-00-00	
150/390GB SCSI AIT-3 Express internal drive w/ blank cartridge & cleaning (1)	x			ADT-1540-00-00	
LTO-2 (200/400GB) SCSI Half-Height Internal Tape Drive	x	x		ADT-4112-00-00	
50/130GB SCSI AIT-2 Internal drive w/ blank cartridge & cleaning (2)		x		ADT-5010-00-00	
400-800GB SCSI LTO3 internal drive (Half Height) , incl. blank cartridge, cleaning kit		x		ADT-8115-00-00	
(1) The tapes needs to be installed in the 2U BTU, connected to the external SCSI connector on 320Lb					
(2) The tapes needs to be installed in the 2U BTU, connected to U320SCSI board					
TAPE LIBRARIES					
AIT-3 Express 1U Rack Tape Library, including 1x Drive, 8x Cartridges (1.2-3.1TB)	x			NZA-0832-00-00	
AIT-3Express 1U Rack Tape Library, including 1x Drive, 8x Cartridges 100/260GB		x		NZA-0830-00-00	CA
FIBRE CHANNEL HBA CONTROLLERS (for SAN connect)					
PCI FC-AL 2Gbits 1-channel Controller, low profile (Emulex LP1050) (2 units)	x	x		AIF-0710-20-00	
SYSTEM MANAGEMENT					
F-RMC Advanced Remote Management board (2 units) (option for L-Model only)		x		AIF-0352-20-00	
SOFTWARE OPTIONS					
Rapid Disk Resync (RDR) Option				contact us	
Upgrade Windows -CtrlSoft 3.x (SP2) NoLicense	x	x		NUT-W32C-00-00	
NEC Storage Path Manager for Windows (EN)			X	NUT-P30W-00-00	
Licence Active Upgrade pour Windows, 1 licence			X	NC	
Rapid Disk Resync (Windows only)			X	NC	

NEC STORAGE SOLUTIONS

For a Complete Peace of Mind ...

The NEC Storage Offering gives a complete set of
Easy & Modular Storage Appliances & Subsystems for all your Data needs :

- NEC Storage NS-Series >>>>>> for Competitive & Effective NAS Appliances
- NEC Storage D-Series >>>>>> for the latest in flexible FC Modular Systems
- NEC Storage S-Series >>>>>> for Advanced Full 4GB FC & SCSI Subsystems

NEC STORAGE
FIBRE CHANNEL & DAS & SAN SUBSYSTEMS

KEY FEATURES INCLUDE:

- Entry, Mid-Range & High End Modular Storage Solutions
- Advanced Full 4GB/Sec Fibre Channel Storage Systems Using NEC Storage Technology
- Storage Solutions for FC, SAS and SATA HDD Technologies
- Support for SAS & SATA HDDs in the same Subsystem
- Storage Solutions of up to 108TB of Raw Storage Capacity
- MAID Technology for Reduced Power Cosumption
- Proprietary Advanced Error Recovery Technology Reducing HDD Replacement
- Unique RAID TM for High Performance and Secured RAID 1
- Double Parity RAID6 for NonStop Operation through 2 HDD Failures
- DynamicSnapVolume for Point in Time Snapshots
- DynamicDataReplication for Volume Replication
- Centralized and Integrated Storage Management Software

NEC STORAGE SOLUTIONS

D1-10
4GB Fibre Channel RAID S/S

D3-10
4GB Fibre Channel RAID S/S

GLOBAL CHARACTERISTICS		
Rack Chassis version	2U	2U
Total Storage Capacity	54TB	108TB
Disk Modules (hot-swap)	3 to 72	3 to 144
RAID Capability	Yes (0, 1, 5, 10, 50, 6)	Yes (0, 1, 5, 10, 50, 6)
Interface to Host	FC-AL / Fabric	FC-AL / Fabric
Max Number of Ports to Host	up to 4	up to 12
Interface to Disks	SAS / SATA	SAS / SATA
Fan Redundancy	Yes	Yes
Power Supply Redundancy	Yes	Yes
CONTENT OF BASIC CABINET		
Embedded RAID Controller (standard)	1 (2nd optional)	2
Cache Memory per RAID Controller	1GB	2GB
Cache Battery Backup Units	24hrs Standard / 120Hrs Optional	24hrs Standard / 72Hrs Optional
Ethernet Management	Standard	Standard
Hot-Swap Power Supply	2x 360W	2x 700W
Host Management	SAS & serial	RS232 & Ethernet
DISK EXPANSION UNITS & HARD DISK DRIVES		
NEC D-Series Disk Expansion Units	up to 5	up to 11
Hard Disk Drives 15 Krpm	73/146/300GB	73/146/300GB
Hard Disk Drives SATA 7.2Krpm	500/750GB	500/750GB
SOFTWARE & CERTIFICATIONS		
Integrated Device Mgt Software	StorageManager	StorageManager
Storage Volume Control	AccessControl	AccessControl
Dynamic Data Replication	DynamicDataReplication	DynamicDataReplication
Remote Data Replication	-	DynamicDataReplication
Host Path Control	PathManager	PathManager
Storage Performance Management	PerformanceMBnitor	PerformanceMBnitor
Snapshot Control	DynamicSnapVolume	DynamicSnapVolume
OS Certifications	Microsoft® Windows Server® 2003 (IA-32, x64) Red Hat® Enterprise Linux VMWare ESX 3.0.1 (SAS & SATA)	Microsoft® Windows Server® 2003 (IA-32, x64) Red Hat® Enterprise Linux VMWare ESX 3.0.1 (SAS & SATA)
PHYSICAL & ELECTRICAL SPECIFICATIONS		
Basic Product (HxWxD)	445×540×86.5 mm	445×540×86.5 mm
Extension Module (HxWxD)	445×540×86.5 mm	445×540×86.5 mm
Maximum Weight	31kg	31kg
Operating Constraints	5-40°C, 10-80% RH	5-40°C, 10-80% RH
Power Consumption	610VA + 450VA	640VA + 450VA
WARRANTY		
Standard Warranty	3 years on site NBD	3 years on site NBD
NEC ULTRACARE SERVICES		
Warranty Extensions	4 hour Response 8x5 or 24x7; 6 hour 8x5 RTC	4 hour Response 8x5 or 24x7; 6 hour 8x5 RTC
REGULATORY & SAFETY		
Regulatory Compliance	UL, FCC, CE	UL, FCC, CE

NEC STORAGE D-SERIES REFERENCES

Use the M@gic Configurator to configure your NEC Storage Solution with factory-installed options

M@gic Configurator

NEC STORAGE D-SERIES SUBSYSTEMS

Description	NEC references	Notes
FIBRE CHANNEL SUBSYSTEM SOLUTIONS		
NEC Storage D1-10 - SAS/SATA HDD 4GBps FC Storage Subsystem - up to 4 Host Ports, up to 2GB Cache, up to 72 HDDs, up to 5 Disk Expansion Units, Redundant PSU & Fans		
NEC Storage D1-10 Fibre Channel Subsystem NEC Storage D1-10 - 12x SAS/SATA HDD 4GBps FC Storage Subsystem - 1x Storage Controller, 12x SAS/SATA HotSwap HDD Carriers, 1GB Cache, 2x FC Host Ports, , 1x DEU Port, 2x HotSwap Power Supplies + Redundant Fans, 2U-EIA Rack Chassis	**BASND1-10X99901**	
NEC Storage D3-10 - SAS/SATA HDD 4GBps FC Storage Subsystem - up to 12 Host Ports, 4GB Cache, up to 144 HDDs, up to 11 Disk Expansion Units, Redundant PSU & Fans		
NEC Storage D3-10 Fibre Channel Subsystem NEC Storage D3-10 - 12x SAS/SATA HDD 4GBps FC Storage Subsystem - 2x Storage Controllers, 12x SAS/SATA HotSwap HDD Carriers, 4GB Cache, 4x Host Ports, 2x HotSwap Power Supplies + Redundant Fans, 2U-EIA Rack Chassis	**BASND3-10X99901**	
FIBRE CHANNEL SUBSYSTEM DISK EXPANSION UNITS		
NEC Storage D-Series DEU for Dx-10 - up to 12 HotSwap HDDs, Redundant PSU & Fans		
NEC Storage D-Series Fibre Disk Expansion Unit For Dx-10 - model 0 NEC Storage D-Series DEU for Dx-10 - 12x SAS/SATA HotSwap HDD Carriers, 2x 1m SAS Data Cables, 2x Power Supplies + Redundant Fans, 2U-EIA Rack Chassis	**BASNDX-DEU99901** BASNS13DEU99901	

A minimum of 3 disks is mandatory for fibre channel subsystems

NEC STORAGE CONNECTIVITY INFRASTRUCTURE

Description	D1-10	D3-10	NEC references Customer installable	Notes
Host Bus Adapter				
Emulex LightPulse LP1050-F2 Single Channel 2GB/s Fibre Channel PCI-X HBA (64-bit PCI-X 133MHz, LP)	x	x	AIF-0710-00-00	
Emulex LightPulse LPe1150 Single Channel 4GB/s Fibre Channel PCI-Express HBA (PCI-Express X4, LP)	x	x	AIF-0714-00-00	
Configurable Switches				
FC-AL 4GB 8 port scalable switch, 8 SFP, Web tools, Adv Zoning, no E-port (Brocade SW200E)	x	x	AEX-B210-00-00	
4 SFP upgrade for B200E	x	x	AEX-B24P-00-00	
E-port upgrade for B200E	x	x	AEX-B2EP-00-00	
Software options (Fabric Watch, Adv Perf MBn, Trunking, Secure OS)	x	x	Contact us	
Cables & Miscellaneous				
D-Series DEU Connection Cables (2x 5m SAS Data Cables)	x	x	ACN-0245-20-00	
4GBps / 2GBps MultiMode FC Data Cable (LC-LC, 2m)	x	x	ACN-0302-02-00	
4GBps / 2GBps MultiMode FC Data Cable (LC-LC, 5m)	x	x	ACN-0305-02-00	
4GBps / 2GBps MultiMode FC Data Cable (LC-LC, 15m)	x	x	ACN-0315-02-00	

NEC STORAGE D-SERIES REFERENCES

Use the M@gic Configurator to configure your NEC Storage Solution
with factory-installed options

M@gic Configurator

NEC Storage Subsystem Options

Description	D1-10	D3-10	NEC references Customer installable	Notes
SAS Hard Disk Drives				
73GB 15Krpm SAS HotSwap HDD	x	x	BDH-2794-00-00	
146GB 15Krpm SAS HotSwap HDD	x	x	BDH-2194-00-00	
300GB 15Krpm SAS HotSwap HDD	x	x	BDH-2394-00-00	
SATA Disk Drives				
500GB 7200rpm SATA2 HotSwap HDD	x	x	ADH-5504-00-00	
750GB 7200rpm SATA2 HotSwap HDD	x	x	ADH-5754-00-00	
FC RAID Subsystem Controller				
NEC Storage D1-10 Storage Controller - 1GB Cache, 2x FC Host Ports, 2x DEU Ports	x		AEX-1010-00-00	
FC Host Port Extension				
NEC Storage D3-10 Host Port Extender - Additional 4x FC Host Ports per Storage Controller (Set of 2, 4 Host Port to 12 Host Port Upgrade)		x	AEX-D12P-00-00	
Battery Backup Unit				
External 1U Battery Backup Unit for Dx-10 (for 2 Power Supplies, up to 120hrs for D1-10, up to 72hrs for D3-10)	x	x	APM-1072-00-00	
Configurable Management Software				
NEC StorageManager D1-10 Lite Edition (Up to 4 AccessControl Connections)	x		DOCBPD110L99901	
NEC StorageManager D1-10 Standard Edition (Up to 16 AccessControl Connections, & ReallocationControl SW)	x		DOCBPD110S99901	
NEC StorageManager D1-10 Enterprise Edition (Unlimited AccessControl Connections, ReallocationControl & PerformanceMBnitor SW)	x		DOCBPD110E99901	
NEC StorageManager D3-10 Lite Edition (Up to 4 AccessControl Connections)		x	DOCBPD310L99901	
NEC StorageManager D3-10 Standard Edition (Up to 16 AccessControl Connections, & ReallocationControl SW)		x	DOCBPD310S99901	
NEC StorageManager D3-10 Enterprise Edition (Unlimited AccessControl Connections, ReallocationControl & PerformanceMBnitor SW)		x	DOCBPD310E99901	
Software Options				
NEC Storage PathManager Software Version 3.3 for Windows (English)	x	x	NUT-P044-00-00	
NEC Storage PathManager Software Version 3.0 for Linux (English)	x	x	NUT-P045-00-00	
NEC StorageManager D1-10 Lite to Standard Upgrade	x		NUT-P5LS-00-00	
NEC StorageManager D1-10 Standard to Enterprise Upgrade	x		NUT-P5SE-00-00	
NEC StorageManager D3-10 Lite to Standard Upgrade		x	NUT-P6LS-00-00	
NEC StorageManager D3-10 Standard to Enterprise Upgrade		x	NUT-P6SE-00-00	
NEC Storage DynamicDataReplication for D1-10 (No Capacity Limitation)	x		NUT-P051-00-00	
NEC Storage DynamicSnapVolume for D1-10 (No Capacity Limitation)	x		NUT-P052-00-00	
NEC Storage DynamicDataReplication for D3-10 (No Capacity Limitation)		x	NUT-P061-00-00	
NEC Storage DynamicSnapVolume for D3-10 (No Capacity Limitation)		x	NUT-P062-00-00	
NEC ULTRACARE EXTENDED WARRANTY SERVICES				
Extension to 3-years On-Site, 6-Hour (24x7) Repair Time Commitment, without MBnitor, from 3 years (EC CAT4)	x	x	NWYG3SH781A	
Extension to 4-years On-Site, 4-Hour (8x5) Response, without monitor, from 3 years (EC CAT4)	x	x	NWYG4SH060A	
Extension to 4-years On-Site, 4-Hour (24x7) Response, without monitor, from 3 years (EC CAT4)	x	x	NWYG4SH760A	
Extension to 4-years On-Site, 6-Hour (24x7) Repair Time Commitment, without MBnitor, from 3 years (EC CAT4)	x	x	NWYG4SH781A	
Extension to 5-years On-Site, 4-Hour (8x5) Response, without monitor, from 3 years (EC CAT4)	x	x	NWYG5SH060A	
Extension to 5-years On-Site, 4-Hour (24x7) Response, without monitor, from 3 years (EC CAT4)	x	x	NWYG5SH760A	
Extension to 5-years On-Site, 6-Hour (24x7) Repair Time Commitment, without MBnitor, from 3 years (EC CAT4)	x	x	NWYG5SH781A	
Extension to 3-years On-Site, 4-Hour (8x5) Response, without monitor, from 3 years (EC CAT4)	x	x	RWYG3SH060A	
Extension to 3-years On-Site, 4-Hour (24x7) Response, without monitor, from 3 years (EC CAT4)	x	x	RWYG3SH760A	
Extension to 4-years On-Site, D+1 (8x5) Response from 3 years (EC CAT4)	x	x	RWYG4SH010A	
Extension to 5-years On-Site, D+1 (8x5) Response from 3 years (EC CAT4)	x	x	RWYG5SH010A	

NEC STORAGE SOLUTIONS

	ST1220 SAS SATA JBOD S/S	S1500 4GB Fibre Channel RAID S/S
GLOBAL CHARACTERISTICS		
Rack Chassis version	2U	Yes 3U
Total Storage Capacity	6TB	13.8TB FC /17.6 SATA
Disk Modules (hot-swap)	12	3 to 60
RAID Capability	With attached server only	Yes (0, 1, 5, 10, 50, 6)
Interface to Host	x4 wide SAS	FC-AL or FC-SW
Max Number of Ports to Host	2	4
Interface to Disks	SAS / SATA	4GB/sec FC
Max Number of Links to Disks	2	4
Fan Redundancy	Yes	Yes
Power Supply Redundancy	Optional	Yes
CONTENT OF BASIC CABINET		
Embedded RAID Controller (standard)	-	1 (2nd optional)
Cache Memory per RAID Controller	-	
Cache Memory Configurability	-	Read, Write
Cache Memory per Controller	-	1GB up to 2GB
Cache Battery Backup Units	-	24hrs Standard / 72Hrs Optional
Ethernet Management	-	Standard
Hot-Swap Power Supply	2x 360W	2x 700W
Host Management	SAS & serial	RS232 & Ethernet
DISK EXPANSION UNITS & HARD DISK DRIVES		
NEC S-Series Fibre Disk Expansion Units	-	up to 3
Hard Disk Drives 10 Krpm	-	36 / 73 / 146
Hard Disk Drives 15 Krpm	36 / 73 / 146 / 300GB	73 / 146 / 300GB
Hard Disk Drives SATA	500GB / 750GB / 1000GB	500GB
SOFTWARE & CERTIFICATIONS		
Integrated Device Mgt Software	ESMPRO	StorageManager
Storage Volume Control	-	AccessControl
Dynamic Data Replication	-	DynamicDataReplication
Host Path Control	-	PathManager
Storage Performance Management	-	PerformanceMBnitor
Snapshot Control	-	DynamicSnapVolume
OS Certifications	Contact us	Contact us
PHYSICAL & ELECTRICAL SPECIFICATIONS		
Basic Product (HxWxD)	88 x 444 x 561 mm	131x482x596 mm
Extension Module (HxWxD)	-	131x482x596 mm
Maximum Weight	21 to 27.5kg	45Kg + 3*45kg
Operating Constraints	5-40°C, 10-80% RH	5-40°C, 10-80% RH
Power Consumption	470VA	680VA +520VA
WARRANTY		
Standard Warranty	3 years on site NBD	3 years on site NBD
NEC ULTRACARE SERVICES		
Warranty Extensions	4 hour Response 8x5 or 24x7; 6 hour 8x5 RTC	4 hour Response 8x5 or 24x7; 6 hour 8x5 RTC
REGULATORY & SAFETY		
Regulatory Compliance	CE, FC	UL, FCC, CE

NEC STORAGE S-SERIES REFERENCES

Use the M@gic Configurator to configure your NEC Storage Solution with factory-installed options

M@gic Configurator

Description	NEC references	Notes

NEC STORAGE S-SERIES SUBSYSTEMS

SAS SATA SUBSYSTEM SOLUTIONS

ST1220 SAS SATA 12 disk slots SAS JBOD - model 0 12 SAS HARD DISK DRIVE EXPANSION UNIT SUPPORTING 4x wide SAS INTERFACE, 12 HOT-SWAP HDD CARRIERS	**BASNST122099901**	

FIBRE CHANNEL SUBSYSTEM SOLUTIONS

NEC Storage S1500 Fibre Channel Subsystem - Single Controller model 0 NEC Storage S1500 - 15x FC HDD 4GBps Storage Subsystem - 1x Storage Controller, 15x HotSwap HDD Carriers, 2x Host Ports, 2x DEU Ports, 2x HotSwap Power Supplies + Redundant Fans, 3U-EIA Rack Chassis, NEC Storage AccessControl (4 HBA Connections)	**BASNS1500X99901**	

FIBRE CHANNEL SUBSYSTEM DISK EXPANSION UNITS

NEC Storage S-Series Fibre Disk Expansion Unit For S1500 - model 0 NEC Storage S-Series FC DEU for S1500 - 15x HotSwap HDD Carriers, 2x Power Supplies + Redundant Fans, 3U-EIA Rack Chassis	**BASNS15DEU99901** BASNS13DEU99901	
NEC Storage S-Series FC Disk Expansion Unit For S1400 - model 0 NEC Storage S-Series DEU for Sx400 - 15x HotSwap HDD Carriers, 2x Power Supplies + Redundant Fans, 3U-Rack	**BASNS14DEU99901** BASNS13DEU99901	

A minimum of 3 disks is mandatory for fibre channel subsystems

NEC STORAGE CONNECTIVITY INFRASTRUCTURE

Description	ST1220	S1500	NEC references	Notes
			Customer installable	
Host Bus Adapter				
PCI express x8 8-channel SAS MegaRAID 8480E	x		AIF-0696-00-00	
2GB HBA for Win 2000/2003 (Emulex LP1050 2GB/s Optical, Windows Driver)		x	AIF-0710-00-00	
2GB HBAs for SAN (Set of 2x QLogic QLA2310F for Express5800/FT Servers)			AIF-0709-20-00	
2GB HBA for Win 2000/2003 (Emulex LP1150 2GB/s Optical, Windows Driver)		x	AIF-0714-00-00	
Preconfigured Hubs and Switches				
FC 2GB SFP for Switch / Hub Multimode (500M Max)			AEX-3801-02-00	
Configurable Switches				
FC-AL 4GB 8 port scalable switch, 8 SFP, Web tools, Adv Zoning, no E-port (Brocade SW200E)		x	AEX-B210-00-00	
4 SFP upgrade for B200E		x	AEX-B24P-00-00	
E-port upgrade for B200E		x	AEX-BE4P-00-00	
Software options (Fabric Watch, Adv Perf MBn, Trunking, Secure OS)		x	Contact us	
Cables & Miscellaneous				
External 4x wide SAS cable (2x SFF8470) - 1 meter	x		ACN-0231-00-00	
External 4-wide SAS cable 1m (2x SFF8470) - 2 meter	x		ACN-0232-00-00	
Cable kit for DEU connection (2 x HSSDC-HSSDC 5M)		x	ACN-0325-02-00	
FC 2GB Optical Multimode Cable (LC-LC) - 2 meter		x	ACN-0302-02-00	
FC 2GB Optical Multimode cable (LC-LC) - 5 meter		x	ACN-0305-02-00	
FC 2GB Optical Multimode Cable (LC-LC) - 15 meter		x	ACN-0315-02-00	

NEC STORAGE S-SERIES REFERENCES

Use the M@gic Configurator to configure your NEC Storage Solution with factory-installed options

NEC STORAGE SUBSYSTEM OPTIONS

Description	ST1220	S1400	S1500	NEC references Customer installable	Notes
Hard Disk Drives for ST1430 U320 : SCSI Solution					
73GB Ultra320 SCSI 10Krpm HDD (1")				BDH-1771-00-00	
146GB Ultra320 SCSI 10Krpm HDD (1")				BDH-1171-00-00	
300GB Ultra320 SCSI 10Krpm HDD (1")				BDH-1321-00-00	
36GB Ultra320 SCSI 15Krpm HDD (1")				BDH-2671-00-00	
73GB Ultra320 SCSI 15Krpm HDD (1")				BDH-2771-00-00	
146GB Ultra320 SCSI 15Krpm HDD (1")				BDH-2121-00-00	
Hard Disk Drives for ST1220 SAS Solution					
36GB 15Krpm SAS 3.5" HDD (1")	x			contact us	
73GB 15Krpm SAS 3.5" HDD (1")	x			contact us	
146GB 15Krpm SAS 3.5" HDD (1")	x			contact us	
300GB 15Krpm SAS 3.5" HDD (1")	x			contact us	
500GB 7200rpm SATA 3.5" HDD (1")	x			contact us	
Hard Disk Drives for S1x00 & FC DEU: Fibre Channel Solutions					
73GB Fibre HDD (10Krpm, 1")		x	x	BDH-1784-00-00	
146GB Fibre HDD (10Krpm, 1")		x	x	BDH-1184-00-00	
300GB Fibre HDD (10Krpm, 1")		x	x	BDH-1384-00-00	
36GB Fibre HDD (15Krpm, 1")		x	x	BDH-2684-00-00	
73GB Fibre HDD (15Krpm, 1")		x	x	BDH-2784-00-00	
146GB Fibre HDD (15Krpm, 1")		x	x	BDH-2184-00-00	
Hard Disk Drives for S1400 DEU: SATA Solutions					
250GB SATA HDD (7200rpm, 3.5",1")		x		ADH-4254-00-00	
FC RAID Subsystem Controller					
Storage Controller for S1500 - 2x Host Ports, 2x DEU Ports			x	AEX-0150-00-00	
4x1GB DDR-400 S1500 SDRAM (for 2x Storage Controllers)			x	AMR-102-00-00	
NEC Storage S1400 Dual 2GB FC Host Interface Storage Controller		x		AEX-0140-00-00	
Power Supply					
Redundant 360W Power Supply Unit	x			APM-0510-EU-00	
Battery backup 72Hrs		x		APM-1472-00-00	
Battery backup 72Hrs		x		APM-1572-00-00	
Software					
NEC Storage PathManager 3.1 for Windows		x		NUT-P024-00-00	
NEC Storage PathManager 2.0a for Linux		x		NUT-P025-00-00	
NEC Storage PathManager 3.3 for Windows			x	NUT-P044-00-00	
NEC Storage PathManager 3.0 for Linux			x	NUT-P045-00-00	
NEC Storage Performance MBnitor for S1000		x	x	NUT-P026-00-00	
NEC Storage AccessControl for S1400 (Additional 4 Connections)		x		NUT-P028-00-00	
NEC Storage AccessControl for S1500 (Additional 4 Connections)			x	NUT-P040-00-00	
NEC Storage DynamicDataReplication V2 for S1400		x		NUT-P036-00-00	
NEC Storage DynamicDataReplication for S1500			x	NUT-P041-00-00	
NEC Storage DynamicSnapVolume for S1400		x		NUT-P037-00-00	
NEC Storage DynamicSnapVolume for S1500			x	NUT-P042-00-00	
NEC Storage ReplicationControl SQL Option for S1000 Series		x	x	NUT-P035-00-00	
NEC ULTRACARE EXTENDED WARRANTY SERVICES					
Extension to 3-years On-Site , 4-Hour (8x5) Response		x		RWBG3SC060A	
Extension to 3-years On-Site , 4-Hour (8x5) Response				RWBG3SD060A	
Extension to 3-years On-Site , 4-Hour (24x7) Response		x		RWBG3SC760A	
Extension to 3-years On-Site , 4-Hour (24x7) Response				RWBG3SD760A	
Extension to 3-years On-Site , 6-Hour (8x5) Repair Time Commitment		x		RWBG3SC081A	
Extension to 3-years On-Site , 6-Hour (8x5) Repair Time Commitment				RWBG3SD081A	

NEC STORAGE S-SERIES REFERENCES

Use the M@gic Configurator to configure your NEC Storage Solution
with factory-installed options

M@gic Configurator

Options for Discontinued NEC Storage S-Series

Description	ST1430	S1300	S2300	S1400	NEC references Customer installable	Notes
Hard Disk Drives for S1300, S2300, S1400 & FC DEU: Fibre Channel Solutions						
73GB Fibre HDD (10Krpm, 1")		x	x		BDH-1783-00-00	
146GB Fibre HDD (10Krpm, 1")		x	x		BDH-1183-00-00	
73GB Fibre HDD (10Krpm, 1")				x	BDH-1784-00-00	
146GB Fibre HDD (10Krpm, 1")				x	BDH-1184-00-00	
300GB Fibre HDD (10Krpm, 1")				x	BDH-1384-00-00	
36GB Fibre HDD (15Krpm, 1")		x	x		BDH-2683-00-00	
73GB Fibre HDD (15Krpm, 1")		x	x		BDH-2783-00-00	
36GB Fibre HDD (15Krpm, 1")				x	BDH-2684-00-00	
73GB Fibre HDD (15Krpm, 1")				x	BDH-2784-00-00	
146GB Fibre HDD (15Krpm, 1")				x	BDH-2184-00-00	
Hard Disk Drives for ST1430 U320 : SCSI Solution						
73GB Ultra320 SCSI 10Krpm HDD (1")	x				BDH-1771-00-00	
146GB Ultra320 SCSI 10Krpm HDD (1")	x				BDH-1171-00-00	
300GB Ultra320 SCSI 10Krpm HDD (1")	x				BDH-1321-00-00	
36GB Ultra320 SCSI 15Krpm HDD (1")	x				BDH-2671-00-00	
73GB Ultra320 SCSI 15Krpm HDD (1")	x				BDH-2771-00-00	
146GB Ultra320 SCSI 15Krpm HDD (1")	x				BDH-2121-00-00	
Cables & Miscellaneous						
External U320 SCSI 1 meter VHD-VHD cable	x				ACN-0215-00-00	
External U320 SCSI 1 meter HD-VHD cable	x				ACN-0216-00-00	
External U320 SCSI 3 meter VHD-VHD cable	x				ACN-0217-00-00	
External U320 SCSI 3 meter HD-VHD cable	x				ACN-0218-00-00	
Cable kit for DEU connection (2 x HSSDC-HSSDC 5M)		x	x	x	ACN-0325-02-00	
FC 2GB Optical Multimode Cable (LC-LC) - 2 meter		x	x	x	ACN-0302-02-00	
FC 2GB Optical Multimode cable (LC-LC) - 5 meter		x	x	x	ACN-0305-02-00	
FC 2GB Optical Multimode Cable (LC-LC) - 15 meter		x	x	x	ACN-0315-02-00	
SCSI Adapters						
Dual SCSI Bus 2x7 option for ST1430 U320	x				AIF-0402-00-00	
FC RAID Subsystem Controller						
512MB Add-on Memory kit (2x512MB PC133 RAM)			x		AMR-1512-20-00	
NEC Storage S2300 Dual 2GB FC host and HDD Subsystem Interface Cards (set of 2)			x		AEX-0231-20-00	
NEC Storage S1400 Dual 2GB FC Host Interface Storage Controller				x	AEX-0140-00-00	
Power Supply						
Redundant 450W Power Supply Unit	x				APM-0340-EU-00	
Battery backup 72Hrs				x	APM-1472-00-00	
Management Board						
ICMB Management board	x				AEX-1432-00-00	CA
Software						
NEC Storage PathManager 3.1 for Windows				x	NUT-P024-00-00	
NEC Storage PathManager 2.0a for Linux				x	NUT-P025-00-00	
NEC Storage Performance MBnitor for S1300		x			NUT-P009-00-00	
NEC Storage Performance MBnitor for S2300			x		NUT-P012-00-00	
NEC Storage Performance MBnitor for S1400				x	NUT-P026-00-00	
NEC Storage AccessControl for S1300 (4 Connections)		x			NUT-P010-00-00	
NEC Storage AccessControl for S1300 (Additional 4 Connections)		x			NUT-P011-00-00	
NEC Storage AccessControl for S1400 (Additional 4 Connections)				x	NUT-P028-00-00	
NEC Storage AccessControl for S2300 (4 Connections)			x		NUT-P013-00-00	
NEC Storage AccessControl for S2300 (Additional 4 Connections)			x		NUT-P014-00-00	
NEC Storage DynamicDataReplication for S2300 (.5TB)			x		NUT-P019-00-00	
NEC Storage DynamicDataReplication for S2300 (1TB)			x		NUT-P017-00-00	
NEC Storage DynamicDataReplication for S2300 (5TB)			x		NUT-P018-00-00	
NEC Storage DynamicDataReplication for S2300 (Upgrade from .5TB to 1TB)			x		NUT-P021-00-00	
NEC Storage DynamicDataReplication for S2300 (Upgrade from 1TB to 5TB)			x		NUT-P022-00-00	
NEC Storage DynamicDataReplication for S2300 (Additional 5TB)			x		NUT-P020-00-00	
NEC Storage DynamicDataReplication V2 for S1400				x	NUT-P036-00-00	
NEC Storage DynamicSnapVolume for S1400				x	NUT-P037-00-00	
NEC Storage ReplicationControl on Windows for S2000 Series			x		NUT-P015-00-00	
NEC Storage ReplicationControl SQL Option for S2000 Series			x		NUT-P016-00-00	
NEC Storage ReplicationControl SQL Option for S1400 Series				x	NUT-P035-00-00	

NEC STORAGE NS-SERIES NETWORK ATTACHED STORAGE SUBSYSTEMS

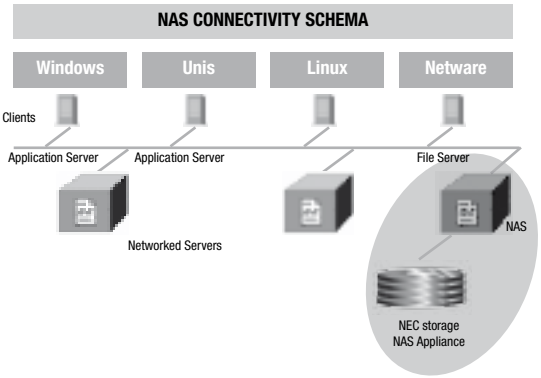
M@gic

Use the M@gic Configurator to configure your Enterprise Server System with factory-installed options

KEY FEATURES INCLUDE :

1. Entry & value SATA Configuration
2. Mid-Range SAS, SATA & FC Subsystem Configurations
3. FC Connectivity for Maximised Data Consolidation & Scalability

- Easy to Install, Deploy and Manage
- Low Total Cost of Ownership with No Per Client License Fee
- Seamless Integration integration into Existing Environments



TYPICAL NAS DEPLOYMENTS:

- File Serving
- Backup/Restore
- Server Consolidation

Windows Storage Server 2003

EXPRESS5800/120Ri-2 Storage Server

MAIN CHARACTERISTICS	SAS / SATA Configuration	FC Configuration
Form Factor	2U Rack Server	2U Rack Server
Maximum Storage Capacity	20TB	100TB
Interface to Disk Expansion	SAS or SATA	FC
RAID Support	HW	HW
Internal Hard Disk Drives	up to 6x HotSwap SATA or SAS HDDs	up to 6x HotSwap SATA or SAS HDDs
External HDD Connectivity	With ST1220 SAS DEU Connectivity	With D-Series or S-Series FC Connectivity
Network Connectivity	Onboard Dual Gigabit NIC + Optional NICs	Onboard Dual Gigabit NIC + Optional NICs
Power Supply	Optional HotSwap	Optional HotSwap

NEC STORAGE SERVERS
NETWORK ATTACHED STORAGE SUBSYSTEMS

Use the M@gic Configurator to configure your
Enterprise Server System with factory-installed options

EXPRESS5800/120RJ-2 STORAGE SERVER

- **High Speed File Access**
- **Heterogeneous Storage Consolidation**
- **Fast, Easy Setup**
- **Comprehensive Management Tools**
- **Scalable from 146GB up to 100TB**
- **RAID 0, 1, 0+1, 3, 5, 10, 30, 50 Hardware Support**
- **Configurations with full RAID 5 or RAID1 for OS (2x73GB) + RAID 5 for Data**
- **Configurable as a NAS Head**
- **Microsoft Windows Storage Server 2003 R2 64bit, Standard Edition**

The EXPRESS5800/120Rj-2 Server is preloadable with the Windows Storage Server 2003 R2 Operating system unit which can connect up to the NEC Storage D-Series or S-Series Fibre Channel subsystems, for over 100TB of storage capacity.

Designation	NEC references	Notes
EXPRESS5800/120Rj-2 Storage Server MBno Xeon E5405, 4x 500GB SATA HDD, LSI MegaRAID 8708 SAS/SATA RAID Controller with 128MB cache Dual Gigabit Ethernet, Microsoft Windows Storage Server 2003 R2 64bit, Standard Edition, No mouse/keyboard	EA8N426-000AE01	
EXPRESS5800/120Rj-2 Storage Server FC - NAS Head / Gateway MBno Xeon E5405, 2x 73GB SAS HDD RAID 1 for OS, LSI MegaRAID 8708 SAS/SATA RAID Controller with 128MB cache 2x Emulex LightPulse LPe1150 Single Channel 4GB/s Fibre Channel PCI-Express HBA, NEC Storage PathManager SW Dual Gigabit Ethernet, Microsoft Windows Storage Server 2003 R2 64bit, Standard Edition, No mouse/keyboard	EA8N42H-000AE02	

OPTIONS FOR DISCONTINUED NEC STORAGE NS-SERIES

Description	NS130	NS160	NS400		NS420		NEC references	Notes
			Base Model	Extended Model	Base Model	Extended Model	Customer Installable	
Processor								
Xeon 2.66GHz/512KB/533MHz Processor Kit					x	x		
Memory								
256MB ECC (1x256MB) DDR266 registered SDRAM Memory upgrade kit (1)	x						AMS-6256-00-00	
1GB ECC (2X512MB) PC133 registered SDRAM Memory upgrade kit (2)			x	x			AMS-5012-00-00	
128MB ECC (1x128MB) DDR266 Unbuffered SDRAM Memory upgrade kit		x					AMS-6129-00-00	
256MB ECC (1x256MB) DDR266 Unbuffered SDRAM Memory upgrade kit		x					AMS-6257-00-00	
512MB ECC (1x512MB) DDR266 Unbuffered SDRAM Memory upgrade kit		x					AMS-6513-00-00	
1GB ECC (1x1GB) DDR266 Unbuffered SDRAM Memory upgrade kit		x					AMS-6011-00-00	
512MB ECC (2x256MB) DDR266 registered SDRAM Memory upgrade kit					x	x	AMS-1513-00-00	
1GB ECC (2X512MB) DDR266 registered SDRAM Memory upgrade kit					x	x	AMS-1011-00-00	
2GB ECC (2x1GB) DDR266 registered SDRAM Memory upgrade kit					x	x	AMS-1021-00-00	
10Krpm & 15Krpm Hard Disk Drives with hot-plug carriers (3)								
18GB Ultra 160 SCSI HDD (15Krpm, 1") - For DEU Only				x			BDH-2860-00-00	
36GB Ultra 160 SCSI HDD (15Krpm, 1") - For DEU Only				x			BDH-2660-00-00	
36GB Ultra 160 SCSI HDD (10Krpm, 1") (4) - For Base Unit			x	x			BDH-1661-00-00	
73GB Ultra 160 SCSI HDD (10Krpm, 1") - For DEU Only				x			BDH-1760-00-00	
73GB Ultra 160 SCSI HDD (10Krpm, 1") (4) - For Base Unit			x	x			BDH-1761-00-00	
Hot-Plug carrier only (for open bay) - For Base Unit			x	x			ADH-3861-00-00	
36GB Ultra320 SCSI HDD (10Krpm, 1")					x	x	BDH-1671-00-00	
36GB Ultra320 SCSI HDD (15Krpm, 1")					x	x	BDH-2671-00-00	
Ethernet Boards								
64 bit PCI Gigabit Ethernet Intel PRO/1000 F Server Adapter (Fiber)			x	x			ALN-0412-00-00	
64 bit PCI Gigabit Ethernet Intel PRO/1000 T Server Adapter (Copper)			x	x			ALN-0419-00-00	
32 bit PCI Gigabit Ethernet Adapter		x					ALN-0420-00-00	
64 bit PCI Gigabit Ethernet Intel PRO/1000 F Server Adapter (Fiber)					x	x	ALN-0412-00-00	
64 bit PCI Gigabit Ethernet Intel PRO/1000XT (Copper)					x	x	ALN-0421-00-00	
64 bit PCI Low profile Gigabit Ethernet Intel PRO/1000XT (Copper)					x	x	ALN-0421-00-LP	
CD/DVD Options								
48x IDE CD-ROM		x					ADR-0480-00-06	
16x IDE DVD		x					ADR-DV16-00-06	
Rackmount kit								
4U Rack-mount kit NS160		x					NZA-1209-00-NS	
Power Supply								
Redundant hot-swap (1x500W) Power Supply Unit					x		APM-0320-EU-00	

(3) Maximum 3 additional HDD for the base model and a maximum of 17 HDD for the Extended Unit (3 base +14 DEU)

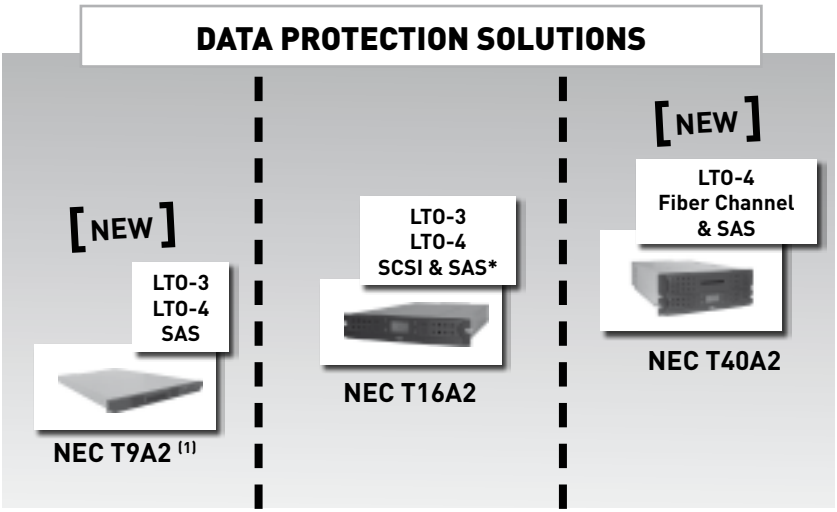
(4) Hot-swap disk carriers come standard within the server chassis. No carrier supplied for add-on disk drives

NEC ULTRACARE EXTENDED WARRANTY SERVICES								
Extension to 3-years On-Site , 4-Hour (8x5) Response	x	x					RWCG3SC060A	
Extension to 3-years On-Site , 4-Hour (8x5) Response			x	x	x	x	RWCG3SB060A	
Extension to 3-years On-Site , 4-Hour (24x7) Response	x	x					RWCG3SC760A	
Extension to 3-years On-Site , 4-Hour (24x7) Response			x	x	x	x	RWCG3SB760A	
Extension to 3-years On-site , 6-Hour (8x5) Repair Time Commitment	x	x					RWCG3SC081A	
Extension to 3-years On-site , 6-Hour (8x5) Repair Time Commitment			x	x	x	x	RWCG3SB081A	

PROTECT AND MANAGE THE CRITICAL DATA OF YOUR COMPANY

STORE, PROTECT, RECOVER AND SHARE YOUR DATA

ASSURED AVAILABILITY AND RELIABILITY !



* Only on LTO-4

(1) Please, contact us

DATA PROTECTION SOLUTIONS

NEC T9A2 LIBRARY

[NEW]

Automated backup Solution with high storage capacity in a reduced space.

Unique offer on the market
1U Rack with 9 cartridges

KEYS FEATURES :

- 1U Rack
- 9 cartridges LTO-3 or LTO-4
- Native storage capacity of up to 7.2TB
- SAS interface
- Barcode reading and scanning technology to register the location of the bands.
- Remote management via Web interface
- 3 years on site NBD as standard.

Description	NEC References
NEC-T9A2 SAS Library LT03 (1x librairy, rails kit, SAS 3mn cable, 1x LTO cleaning cartridge/no data cartridges)	Contact us
NEC-T9A2 SAS Library LT04 (1x librairy, rails kit, SAS 3mn cable, 1x LTO cleaning cartridge/no data cartridges)	Contact us
Back-up Device Accessory : LTO-4-Cartridge 800GB 1-Pack	MED-LTO4-DC-01
Back-up Device Accessory : LTO-4-Cartridge 800GB 5-Pack	MED-LTO4-DC-05
Back-up Device Accessory LTO-3-Cartridge 400GB 1-Pack	AIP-8110-00-00
Back-up Device Accessory LTO-3-Cartridge 400GB 5-Pack	AIP-8110-50-00
Back-up Device Accessory : Cleaning cartridge LTO (1 cartridge pack)	AIP-2111-00-00

DATA PROTECTION SOLUTIONS

NEC T16A2 LIBRARY

Automated, affordable backup solution and easy to use for SMB

3 years on site NBD as standard

- **Performances :** supports **LTO-3** and **LTO-4** tape via **SCSI** and **SAS connexion**. Delivers up to **120MB/sec** native transfers rates (LTO-4).
- **Compact :** The NEC T16A2 library is a **2U** high density rack solution with **16 cartridges** for a native capacity of up to **12.8TB.**
- **Simplified scalability :** thanks to double magazine design that allows to **manage 8 cartridges by magazine.**
- **Remote Management System:** Intuitive administration screen and remote management via Web interface
- **High reliability:** thanks to the **"anti-dust" technology integrated** into every magazine extremity. What allows to reduce the dust and the wear of the band.
- **Open solution:** Supports most of the operating systems such as **Microsoft Windows** and **Linux**.
- **Compatible with the main backup software as** Symantec Backup Exec™ and BrightStor ARCserve™

Description	NEC References
NEC-T16A2 SAS Library LT04 12.8-25.6TB [NEW] (1x librairy, rails kit, SAS 3mn cable, 1x LTO cleaning cartridge/no data cartridges)	Contact us
NEC-T16A2 SCSI Library LT03 6.4-12.8TB (1x librairy, rails kit, SCSI VHD-HD 3mn cable, 1x LTO cleaning cartridge/no data cartridges)	SDV-LT03-XX-00
NEC-T16A2 SCSI Library LT04 12.8-25.6T (1x librairy, rails kit, SCSI VHD-HD 3mn cable, 1x LTO cleaning cartridge/no data cartridges)	SDV-LT04-XX-01
Back-up Device Accessory : LTO-4-Cartridge 800GB 1-Pack	MED-LT04-DC-01
Back-up Device Accessory : LTO-4-Cartridge 800GB 5-Pack	MED-LT04-DC-05
Back-up Device Accessory LTO-3-Cartridge 400GB 1-Pack	AIP-8110-00-00
Back-up Device Accessory LTO-3-Cartridge 400GB 5-Pack	AIP-8110-50-00
Back-up Device Accessory : Cleaning cartridge LTO (1 cartridge pack)	AIP-2111-00-00

DATA PROTECTION SOLUTIONS

NEC T40A2 LIBRARY

Modular, expandable backup solution and easy to use for growing businesses.

[NEW]

3 years on site NBD as standard

- **Superior performances:** increase your performances thanks to 2 tapes drives LTO-4 supported via SAS or Fiber Channel connexion. Delivers up to 240MB/sec native transfers rates.
- **High density : 4U** compact rack form factor with **40 cartridges** for a native storage capacity of up to **32TB.**
- **Modular solution :** possibility to integrate 24 cartridges and add afterward an upgrade to 32 or 40 cartridges. **4 magazines** are available and allow to manage **10 cartridges by magazine** including 2 useful as e-mail box. The tape drive can be imported and exported individually via the e-mail box.
- **High availability :** several **components are hotswap** as the tape drive. it is possible to add in optional the **"Redundant and Hotswap PSU ".**
- **Intuitive Management :** intuitive display screen and remote management via Web interface. The T40A2 library allows the remote-administration, configuration and control of any function (the state of the system, diagnostics, inventory, alarms…)
- **Simplified operation :** The NEC T40A2 library uses an advanced bar code reader to register the location of bands: therefore the important data is saved more efficiently the « anti-dust « technology integrated into every magazine extremity. What allows to reduce the dust and the wear of the band.
- **Compatible** : Supports most of the operating systems such as Microsoft **Windows** and **Linux.** It's **compatible with the main backup software** as Symantec Backup Exec™ and BrightStor ARCserve™.

Description	NEC References
NEC-T40A2 Fiber Channel Library 24 slots and 1-drive LTO4 standard 32-64TB (1x librairy, rails kit, FC 3mn cable, 1x LTO cleaning cartridge/ no data cartridges)	Contact us
NEC-T40A2 SAS Library 24 slots and 1-drive LTO4 standard 32-64TB (1x librairy, rails kit, SAS 3mn cable, 1x LTO cleaning cartridge/ no data cartridges)	Contact us
NEC T40A2 additional 8 slots enabling key	Contact us
NEC T40A2 additional 2nd LTO4 FC tape drive	Contact us
NEC T40A2 additional 2nd LTO4 SAS tape drive	Contact us
NEC T40A2 redundant PSU (replacement of standard fix PSU)	Contact us
Back-up Device Accessory : LTO-4-Cartridge 800GB 1-Pack	MED-LTO4-DC-01
Back-up Device Accessory : LTO-4-Cartridge 800GB 5-Pack	MED-LTO4-DC-05
Back-up Device Accessory : Cleaning cartridge LTO (1 cartridge pack)	AIP-2111-00-00

RACK SYSTEMS & COMPONENTS

NEC PROPOSES A COMPLETE SET OF LEADING-EDGE RACK-SYSTEMS AND COMPONENTS TO ENABLE SECURE AND RELIABLE SERVER INTEGRATION:

SAFETY AND FLEXIBILITY AT ANY TIME !

- Choice of IT-industry standard rack frames and suitable tray components for quick and safe access to core server and storage systems
- Efficient Keyboard / Video / Mouse distribution console for smooth internal rack systems management
- Full range of rack-optimized power distribution and Uninterruptible Power Supply components for quality power continuity across the internal rack systems
- Comprehensive range of rack-optimized Tape Backup systems and connections to facilitate integration of future NAS, SAN solutions

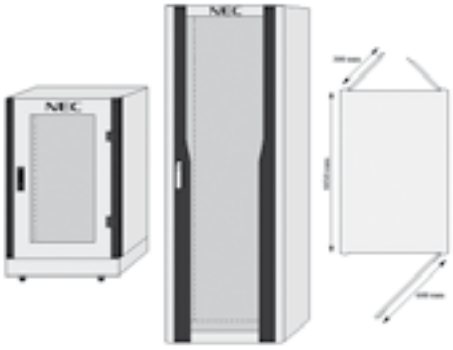
RACK CONFIGURATION TOOL QUICK & EASY

InRackWizard Configurator

•Through Wizard based applications choices

NEC PROPOSES SOLUTIONS ON DEMAND AND TURN-KEY TREATED BY THE SERVICE :

FACTORY INTÉGRATION INRACK*



*** For more details, please see "Factory Integration Service"**

RACK SYSTEMS & COMPONENTS

Fully Integrated & Easy to Manage Rack Systems

InRackWizard Configurator

Use the InRackWizard Configurator to quickly & easily create all your rack-optimized architectures

Description	SI1310	SI1520	110Ek	SI1720	120Eh-2	120Ei	120Lj	120Uj	140Hf	SI1110-R1	SI1120R-1	120Rg-1	120Rh-1	120Rh-2	120Rj-2	140Rf-4	R140a-4	320Fb	320Fc	320Fd	ST1430 - U320	ST1220	S1500	NEC references	Notes
RACK FRAMES *(Mist/White colour, Hidth = 2,24 m, depth = 1m; width = 0.6m)(Depth = 1 m, Width = 0.6 m)*																									
42U 19" Rack Frame - Customer Installed Model (700L x 2013H x 1050D, NEC-customised Front Vented Metal Door, Split Rear Doors)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	NZA-4220-00-00	
42U 19" Optimzed Rack Frame - Factory Integrated Model (700L x 2013H x 1050D, NEC-customised Front Vented Metal Door, Split Rear Doors, Side Fillers, Cable Guides)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	NZA-4230-00-00	
16U 19" Rack Frame (600L x 940H x 1000D, NEC-customized Front & Rear Vented Metal Doors)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	NZA-1600-00-00	
RACK FRAME OPTIONS *(Mist/White colour)*																									
Kit of two 1U rack filler panels for optimized air-flow	**42U and 16U**																							NZA-4002-00-00	
Kit of two 2U rack filler panels for optimized air-flow																								NZA-4003-00-00	
Kit of two 3U rack filler panels for optimized air-flow																								NZA-4004-00-00	
Kit of two 6U rack filler panels for optimized air-flow																								NZA-4005-00-00	
Accessory kit (bolt & nuts)	**42U**																							NZA-4017-00-00	
Front stabilizer for 42U rack 70																								NZA-4018-00-00	
Front side filler for 42U rack 70 (brush, max 2/frame)																								NZA-4019-00-00	
Front side filler for 42U rack 70 (metal, max 1/frame)																								NZA-4020-00-00	
Baying kit for two 42U rack 70																								NZA-4021-00-00	
Cable guide kit (2 units)																								NZA-4022-00-00	
Universal 1U Rackmount Kit (L bracket)	**42U et 16U**																							NZA-1100-00-00	
Cable arm 1U rail kit												x	x											NZA-1110-00-00	
Cable arm																		x	x					NZA-4040-00-00	
Cable arm kit (One Touch Rails compatible only)													x	x	x	x								NZA-4033-00-00	
2U Fixe Tray size jusqu'à 18 Kgs	**42U et 16U**																							NZA-4024-00-00	
RACKMOUNTING KITS FOR SERVERS																									
5U Black Rack-mount kit (server front pannel and external bays to be changed on-site)	x	x																						NZA-1220-00-B0	
5U Rack-mount kit (server front pannel and external bays to be changed on-site)			x																					NZA-1224-00-00	
6U Rack-mount kit (server front pannel and external bays to be changed on-site)				x	x																			NZA-1222-00-00	
6U Rack-mount kit (server front pannel and external bays to be changed on-site)						x																		NZA-1226-00-00	
5U Rack-mount kit (server front pannel and external bays to be changed on-site)							x																	NZA-1223-00-00	
5U Rack-mount kit (server front pannel and external bays to be changed on-site)								x																MCH-NRMK-83-00	

**** Please use the M@gic configurator to have your Express5800 Tower servers configured in factory with Rack Mount Kits for use in the NEC Rack Frames***

NEC EXPRESS5800 RACK SYSTEMS

Fully Integrated & Easy to Manage Rack Systems

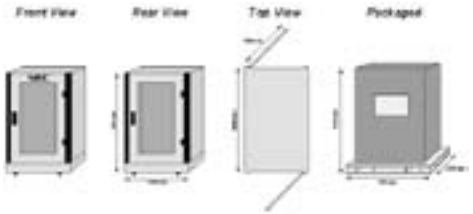
RACK SYSTEM SPECIFICATIONS

	NEC 16U Rack Frame	NEC 42U Customer Installable Rack	NEC 42U Factory Integrated rack
Part Number	**NZA-1600-00-00**	**NZA-4220-00-00**	**NZA-4230-00-00**
EIA Capacity	16U	42U	42U
External Height (mm)	940	2013	2013
External Depth (mm)	1000	1050	1050
External Width (mm)	600	700	700
Inner Frame Width (mm)	450 (19")	450 (19")	450 (19")
Inner Frame Depth (mm)	868	870	870
Weight (Kg, Empty)	90	130	140
Maximum Load (Kg) on Casters	320	450	1050
Maximum Load (Kg) on Feet	320	1050	1050
Total Weight (Kg) on Feet	410	1180	1190
Maximum Load x U (Kg)	20	20	20
Shippable Loaded	***Yes - Full (410Kg)***	***No***	***Yes - Full (1190Kg)***
Stabilizers	Front - Included	Option : NZA-4018-00-00	Option : NZA-4018-00-00
Cable guides		Option : NZA-4022-00-00	Inclus : NZA-4022-00-00
Side fillers		Option : NZA-4020-00-00	Inclus : NZA-4020-00-00
Accessory kit	Inclus : NZA-4017-00-00	Inclus : NZA-4017-00-00	Inclus : NZA-4017-00-00
U numbering on four mounting rails	Oui - Inclus	Oui - Inclus	Oui - Inclus
Structure assembly		SCREWED	SCREWED/WELDED
Casters	Oui - Inclus	Oui - Inclus	Oui - Inclus
Perforated Front Door	Oui - Inclus	Oui - Inclus	Oui - Inclus
Perforated Rear Door	Oui - Inclus	Oui - Inclus	Oui - Inclus

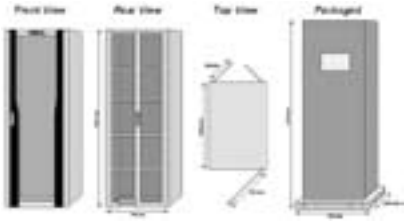
1U = 1.75inches (44,5mm)

NEC 16U & 42U RACK FRAMES FLOOR SPACING & PACKAGING

16U 19" Rack Frame (600mm Wide, NEC-customized Front & Rear Vented Metal Doors)



42U 19" Rack Frame - Customer Installed & Factory Integrated Models (700mm Wide, NEC-customised Front Vented Metal Door, Split Rear Doors)



RACK SYSTEMS & COMPONENTS

Fully Integrated & Easy to Manage Rack Systems

Description	NEC references	Notes
KEYBOARD, VIDEO, MOUSE		
Rack Console components		
2U Keyboard/Mouse Sliding Tray only (no keyboard, no mouse) - to be used with compact keyboard AIP-0020-FF-00	AZA-4009-00-00	
2U LCD console : sliding Tray with 17'' LCD Monitor, no keyboard, no mouse (to be used with compact keyboard AIP-0020-FF-00	NZA-4060-00-00	
1U LCD console : sliding Tray with 17'' LCD Monitor, keyboard & mouse pad + 16-Port KVM Switch (black/ French)	CDV-LCDX-02-00	
1U LCD console : sliding Tray with 17'' LCD Monitor, keyboard & mouse pad + 16-Port KVM Switch (black/ US)	CDV-LCDX-23-00	
Autres composants		
Compact keyboard (104 keys) + mouse kit for rack - French for AZA-4009-00-00 and AZA-4060-00-00	AIP-0020-FF-00	
Compact keyboard (104 keys) + mouse kit for rack - English-Europe for AZA-4009-00-00 and AZA-4060-00-00	AIP-0020-UU-00	
Standard keyboard PS2 (no used with AZA-4009-00-00 and AZA-4060-00-00)	AIP-0025-**-B0	
KVM (KEYBOARD, VIDEO, MOUSE) SWITCHING COMPONENTS		
Switches KVM Minicom		
8-Port KVM Switch for Category 5 cables (PS/2, USB) - 1 user	AEX-0800-00-00	
16-Port KVM Switch for Category 5 cables (PS/2, USB) - 1 user	AEX-1610-00-00	
16-Port KVM-over-IP Switch for Category 5 cables (PS/2, USB)	CDV-KVMX-IP-00	
Category 5 to VGA & PS/2 interface module - includes 3 m CAT5 green cable	ACN-0810-00-00	
Category 5 to VGA & USB interface module - includes 3 m CAT5 green cable	ACN-0811-00-00	
KVM CAT5 Data Cable (RJ45, 3m)	ACN-0114-00-00	
Switches KVM Avocent		
16-Port KVM Switch for Category 5 cables (PS/2, USB) - 2 local users	AEX-1625-00-00	
Category 5 to VGA & PS/2 interface module - includes 3 m CAT5 green cable	ACN-0820-00-00	
Category 5 to VGA & USB interface module - includes 3 m CAT5 green cable	ACN-0821-00-00	
KVM CAT5 Data Cable (RJ45, 3m)	ACN-0114-00-00	
NETWORKING COMPONENTS		
LAN		
3Com® Switch 5500G-EI 24-Port 10/100/1000Mbps (3CR17250-91-ME, Manageable RJ45)	AEX-3245-00-00	
RJ45 direct cable	ACN-0102-00-00	
Cluster Internode Heartbeat Cable(10/100/1000)	ACN-0110-00-00	

RACK SYSTEMS & COMPONENTS

Description	NEC references	Notes
PDU (POWER DISTRIBUTION UNITS) OPTIONS		
Rack Master PDU 230V (8x IEC320 C13 + 2x C19 Outlets, 1x IEC60309 Secure Power connector inlet,Vertical/Horizontal fitting)	ASP-0020-00-00	
Rack Master PDU 230V (12x IEC320 C13 Outlets, 1x IEC60309 Secure Power connector inlet,Vertical/Horizontal fitting)	ENS-12C1-32-01	
Rack Master PDU 230V (2x IEC320 C13 + 4x C19 Outlets,1x IEC60309 Secure Power connector inlet,Vertical/Horizontal fitting)	ENS-2C13-32-01	
Rack Master PDU 230V (8x IEC320 C13 + 2x C19 Outlets,1x IEC60309 Secure Power connector inlet,Vertical/Horizontal fitting)	ENS-8C13-32-01	
Rack Master PDU 230V (6x IEC320 C19 Outlets,1x IEC60309 Secure Power connector inlet,Vertical/Horizontal fitting)	ENS-6C19-32-01	
Rack Slave PDU 230V (12x IEC320 C13 Outlets, 1xIEC320/C20 Power connector inlet, Vertical/Horizontal fitting)	ENS-12C1-16-01	
Rack Slave PDU 230V (6x IEC320 C13 Outlets, 1xIEC320/C20 Power connector inlet, Vertical/Horizontal fitting)	ENS-6C13-16-01	
Power cords		
3 m power cord with one IEC320-C13 and one IEC320-C14 plug	ACN-2001-00-00	
2 m power cord with one IEC320-C19 and one IEC320-C20 plug	ACN-2002-00-00	
UPS (UNINTERRUPTIBLE POWER SUPPLY) OPTIONS		
UPS		
APC Smart-UPS 1500VA 2U Rack Model (230V, 4x 10A Outlets, USB or Serial Management, PowerChute SW)	ABA-1520-00-00	
APC Smart-UPS 3000VA 2U Rack Model (230V, 8x 10A + 1x 16A Outlets, USB or Serial Management, PowerChute SW)	ABA-3020-00-00	
APC Smart-UPS 5000VA 3U Rack Model (230V, 8x 10A + 2x 16A Outlets, Serial Management, SNMP Mgt, PowerChute SW)	ABA-5010-00-00	
APC Smart-UPS 10000VA 6U Rack Model (230V, 4x 10A + 4x 16A Outlets, Serial Management, SNMP Mgt, PowerChute SW)	ENS-10KV-00-00	
APC Smart-UPS 750VA USB Tower Model (SU750I, 230V)	ABA-0750-00-00	
APC Smart-UPS 1000VA Tower Model (230V, 8x 10A Outlets, USB or Serial Management, PowerChute Software)	ABA-1000-00-00	
Management UPS & Câbles		
SmartSlot Interface Expander Card for 2 Server UPS Management	AEX-2200-00-00	
8-Port Share-UPS Interface Expander 1U Rack Model	AEX-2008-00-00	
Serial extender Interface Cable	ACN-2000-00-00	
10/100BaseT Newtwork Management Card	AEX-2031-00-00	
Latched Power Cable with Secure - IEC60309 connector for 3000VA ABA-3020-00-00 UPS	ASP-0007-00-00	
Latched Power Cable with Secure - IEC60309 connector for 5000VA ABA-5010-00-00 UPS	ASP-0005-00-00	
Latched Power Cable with Secure - IEC60309 64A one phase connector for 10000VA ENS-10KV-00-00 UPS	CBL-10KV-1P-00	
Latched Power Cable with Secure - IEC60309 3x32A 3 phases connector for 10000VA ENS-10KV-00-00 UPS	CBL-10KV-3P-00	
Latched Power Cable with Secure - IEC60309 connector for 10000VA ENS-10KV-00-00 UPS for master PDU connection	CBL-10KV-0U-00	

SERVER SYSTEMS & COMPONENTS

UPS SOLUTIONS FOR EXPRESS5800 SERVERS & NEC STORAGE SYSTEMS

APC's Smart-UPS® Uninterruptible Power Supplies offer great reliability, availability, and management to help protect your NEC Express5800 servers and NEC Storage subsystems and appliances from power outages and disturbances.
In addition to providing seamless battery backup, the UPS solutions effortlessly integrate with **NEC's ESMPRO®** server management platform and with the Microsoft® Windows® 2003 and Red Hat® Linux® operating systems for smooth unattended shutdowns when needed.

HOW TO CHOOSE AN UNINTERRUPTIBLE POWER SUPPLY (UPS)

1 - Calculate the total VA (Volt x Ampere) power of the configuration to be connected to the UPS. (table 1)
2 - It is recommanded to allow some UPS power margin for future configuration expansion (ex: addition of future servers)
3 - Select the UPS corresponding to the calculated VA power and required autonomy (in minutes). (table 2)

TYPICAL POWER OF EXPRESS5800 SERVERS AND STORAGE SUBSYSTEMS & APPLIANCES (VA) (TABLE 1)

SERVEUR	Max WATT	Max Curr.	Max BTU	INLET Nb NR	INLET Nb R	INLET TYPE IEC	POWER INLET SIDE L/R	CABLE-ARM CABLE LENGTH W	CABLE-ARM CABLE LENGTH W/O
xI1310		0,00	0						
110Ek	380	1,73	1297	1		C14			
SI1720	550	2,50	1877	1	1	C14	R		
SI1720 HS	650	2,95	2218	1	2	C14	R		
SI1110-R1	350	1,59	1195	1		C14	R		
SI1120-R1	350	1,59	1195	1		C14	R		
120Rg-1 SATA	650	2,95	2218	1		C14	L		
120Rg-1 SAS	650	2,95	2218	1	2	C14	L		
120Rh-1 SAS/SATA Fixed PSU	650	2,95	2218	1		C14	L		
120Rh-1 SAS/SATA HS PSU	750	3,41	2560	1	2	C14	L		
120Ri-2 SAS	750	3,41	2560	1	2	C14	L		
120Rj-2 SAS/SATA	750	3,41	2560	1	2	C14	L		
120Eh-2	550	2,50	1877	1	1	C14	R		
120Eh-2 HS	650	2,95	2218	1	2	C14	R		
120Li	700	3,18	2389	1	2	C14	R	1350	NA
320Lb-R	1200	5,45	4096	2		C14	L	NA	
320Lc-R	1200	5,45	4096	2		C14	L	NA	
320Fb	1400	6,36	4778	2		C14	R	NA	
320Fc	1500	6,82	5120	2		C14	L	NA	
S1300 BAS	480	2,18	1638	0	2	C14	L/M	NA	500
S1300 DEU	480	2,18	1638	0	2	C14	L/M	NA	500
S1400 BAS	510	2,32	1741	0	2	C14	L/M	NA	500
S1400 DEU	480	2,18	1638	0	2	C14	L/M	NA	500
3U DEU ST1430	450	2,05	1536	1	2	C14	L/M	1350	NA
ST1430 U320	450	2,05	1536	0	2	C14	L/M	1350	NA
ST1220	400	1,82	1365	1	2	C14	R/L	NA	
Dx-10	500	2,27	1707	0	2	C14	R/M	NA	
S1500 BAS	510	2,32	1741	0	2	C14	L/M	NA	500
S1500 DEU	480	2,18	1638	0	2	C14	L/M	NA	500
140Hf	2100	9,55	7167	3	4	C14	R		NA
140Re-4	1400	6,36	4778	2	4	C14	R		NA
140Rf-4	1400	6,36	4778	2		C14	R/L		NA
TW100 TS100	400	1,82	1365	1		C14	R	NA	
SYNERWAY SD1000	1300	5,91	4437	2	3	C14	R	NA	
SYNERWAY SD2000	1300	5,91	4437	0	3	C14	R	NA	
WA1310	400	1,82	1365				R		
WI1510	550	2,50	1877						
xA2510	670	3,05	2287			C14	R		
xA2510 HS		0,00	0			C14	R		

Max WATT = Maximum power consumption for full configuration in watt

Max Curr. = Maximum current required

Max BTU = Maximum BTU dissipated by equipment at maximum power consumption

Inlet Nb NR = Number of inlet plugs for non redundant configuration

Inlet Nb R = Number of inlet plugs for non redundant configuration

Inlet type = inlet plug type

Power supply side = Looking from the back of the device where the PSU are placed Right Left Center

Cable-Arm / Cable Length = minimum cable length W or W/O cable arm to connect the device

ESTIMATED AUTONOMIE IN HOURS:MINUTES

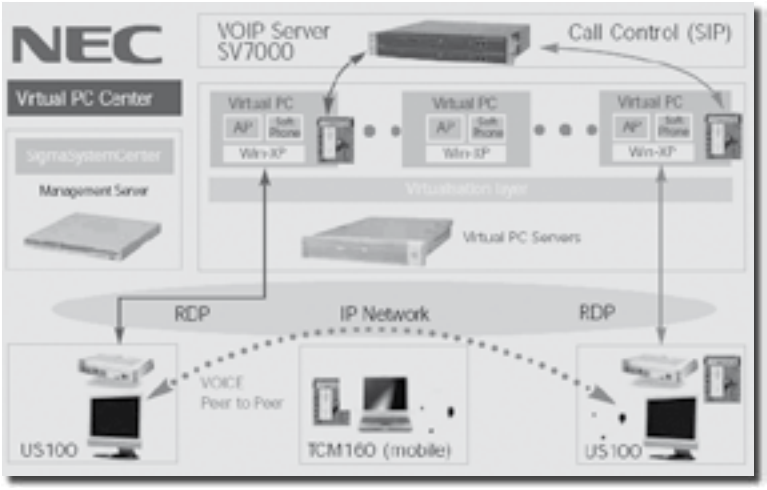
Watt	VA	SU 1500RM 2U ABA-1520-00-00 hours:minuts:sec	SU RTD 5000RM XLI ABA-5010-00-00 hours:minuts:sec	SURT 10000RMXLI ENS-10KV-00-00 hours:minuts:sec
50	70	5:21:00	6:56:00	7:34:00
100	140	3:05:00	4:35:00	5:39:00
200	280	1:31:00	2:40:00	4:10:00
300	420	0:55:00	1:51:00	3:10:00
400	560	0:37:00	1:23:00	2:33:00
500	700	0:26:00	1:06:00	2:07:00
600	840	0:19:00	0:55:00	1:48:00
700	980	0:14:00	0:47:00	1:34:00
800	1120	0:11:00	0:40:00	1:23:00
900	1260	0:09:00	0:35:00	1:14:00
1000	1400	-	0:31:00	1:06:00
1200	1680	-	0:25:00	0:55:00
1400	1960	-	0:21:00	0:47:00
1600	2240	-	0:17:00	0:41:00
1800	2520	-	0:15:00	0:36:00
2000	2800	-	0:13:00	0:32:00
2500	3500	-	0:09:00	0:24:00
3000	4200	-	0:07:00	0:19:00
3400	4760	-	0:05:00	0:17:00

"VIRTUAL PC CENTER" SOLUTION

NEC presents the "Virtual PC Center ", a combined hardware and software solution featuring integrated IT and Volp technology,

- The VPCC design brings together telephone and data, making management of work stations easier, reducing administration costs, and gurantees enterprise data protection,
- The VPCC allows authentic user mobility: each user has access to their own work environment wherever they are,
- With the introduction of the New Generation Thin Client, the user can benefit from unprecedented media quality.

The pre-packaged NEC hardware and software solution is made up of NEC US100 thin client (see page 34), Express 5800/120 Ri-2 server, Virtual PC's (with Windows XP Pro) and an integrated management server, which allows applications to be launched and resource allocation to be updated,
This solution can be complimented by a NEC SV7000 telephone server for integrating VoIP on each thin client,



For more information please see your contact at NEC Computers.

CONSOLIDATION SOLUTION

VMware Infrastructure 3
Virtualization Solution for NEC Servers

VMware Infrastructure 3.5 virtualizes and aggregates NEC servers, as well as NEC storage and network ressources, independently from application and operating systems.

VMware Infrastructure 3.5 reduces costs, improves resource efficiency, and improves management and provisioning by consolidating multiple logical servers onto more powerful servers.

NEC VALUE PROPOSITION :

Customer requirements :

- To increase server utilization, simplify management and lower costs
- To benefit from **certified NEC platforms** for VMware VI3 and **software management tool** available from NEC, **SigmaSystemCenter**
- Single point of contact for hardware and software support

NEC BENEFITS

- To purchase VMware VI3;x as a software option for NEC servers simplifies operations
- Certified NEC servers and storage, with SigmaSystemCenter, NEC comprehensive management tool for both hardware & virtual systems.
- Single Point of Contact for hardware and software support : NEC Center of Expertise
- To benefit from NEC certified Engineers experience on virtualization

CONSOLIDATION SOLUTION

VMware Infrastructure 3
Virtualization Solution for NEC Servers

For Compatibility list, please refer to www.nec-computers.com

Description	Reference
VMware Infrastructure Media Kit	NUVV3MEDIA1
Vmware Virtual Infrastructure 3	
VMware Infrastructure 3 **Foundation** for 2 processors (NAS OR local storage), 1Y support included	NUVV3STR021
VMware Infrastructure 3 **Standard** for 2 processors, 1Y support included	NUVV3STD021
VMware Infrastructure 3 **Entreprise** for 2 processors, 1Y support included	NUVV3ENT021
Vmware Virtual Infrastructure 3 Management	
VMware **VirtualCenter Management Server** 2 for Vmware Infrastructure, priced per VirtualCenter application instance, 1Y support included	NUVV3VMS021
Vmware Virtual Infrastructure 3, options	
VMware **VMBtion** 2 for 2 processors, 1Y support included	NUVV3VMT021
VMware **HA** 2 for 2 processors, 1Y support included	NUVV3VHA021
VMware **DRS** 2 for 2 processors, 1Y support included	NUVV3DRS021
Vmware Virtual Infrastructure 3 Upgrades	
VMware Infrastructure 3 **Foundation to Standard Upgrade** for 2 processors, 1Y support included	NUVV3RDU021
VMware Infrastructure 3 **Foundation to Enterprise Upgrade** for 2 processors, 1Y support included	NUVV3REU021
VMware Infrastructure **Standard to Enterprise Upgrade** (DAS, HA, Consolidated Backup, VMBtion) for 2 processors, 1Y support included	NUVV3DEU021
VMware VirtualCenter Foundation	
VMware VirtualCenter Foundation (Limited to 3 Nodes), 1Y support included	NUVV3VCF021
Upgrade: VMware VirtualCenter Foundation to VMware VirtualCenter Management Server, 1Y support included	NUVV3FNU021
VMware Infrastructure Foundation Acceleration Kit	
VMware Infrastructure Foundation Acceleration Kit for 6 processors , 1Y support included (Includes VirtualCenter Foundation, VI Foundation for 6 processors)	NUVV3FAK021
VMware Infrastructure Standard High Availability Acceleration Kit	
VMware Infrastructure Standard High Availability Acceleration Kit for 4 processors, 1Y support included (Includes 1 VirtualCenter Foundation, VI Standard for 4 processors)	NUVV3SAK021
Support	
VMware SW support (renewal): SW updates + illimited email & phone support	NUVDTS000AA

To obtain more information on VMware solutions and accompanying Professional Services available to secure your IT resources, please send your queries to services@nec-computers.com

NEC SYSTEM MANAGEMENT SOLUTIONS

SigmaSystemCenter
Global Administration of IT infrastructure

[NEW]

PRE-REQUISITES FOR NEW IT INFRASTRUCTURE :

- Increase in the amount of stored data
- Maximize system availability
- Limited investment and scalability for quick business expansion
- Flexibility to adapt to business changes
- Operational simplicity to decrease maintenance costs

SIGMASYSTEMCENTER : ONE SINGLE TOOL FOR MONITORING AND MANAGEMENT OF THE ENTIRE IT INFRASTRUCTURE

INTEGRATED PLATFORM MANAGEMENT :

- Servers, storage, both physical & virtual systems
- Cooperation with operation management tools

FEATURES :

- **Easy deployment :** Installation of OS and software from remote console and delivery of security patch to multiple servers at the same time
- **Simplified operation :** policy-based automatic resource optimization
- **Dynamic management :** combination of physical resource pool and service definition enables dynamic system management
- **Automatic recovery :** shared spare server and automatic restoration minimize system downtime
- **High service level :** autonomic scale-out system dynamically balances workload across all servers.

BENEFICES :

- **FLEXIBILITY : HIGH-LEVEL RESOURCE MANAGEMENT**
  - Servers, storage, network
  - Physical **AND** virtual
  - Optimum platform constitution
  - Dynamic resource allocations
- **RELIABILITY :** Immediate operation transfer between systems in the event of failure
- **SIMPLICITY :** Simplification of routine tasks & processes to save time

For more details, please contact your sales representative.

NEC SYSTEM MANAGEMENT SOLUTIONS

SigmaSystemCenter
Global Administration of IT infrastructure

[NEW]

Each project must be validated by a NEC Engineer.

Description	Reference
NEC SigmaSystemCenter Standard Edition	NUT-SC30-00-00
License for Windows Server Target. One license per server target	
NEC SigmaSystemCenter Windows Server target license(1)	NUL-SC30-00-W0
NEC SigmaSystemCenter Windows Server target license(5)	NUL-SC30-05-W0
NEC SigmaSystemCenter Windows Server target license(10)	NUL-SC30-10-W0
NEC SigmaSystemCenter Windows Server target license(50)	NUL-SC30-50-W0
Licence for Linux Server Target. One license per server target	
NEC SigmaSystemCenter Linux Server target license(1)	NUL-SC30-00-L0
NEC SigmaSystemCenter Linux Server target license(5)	NUL-SC30-05-L0
NEC SigmaSystemCenter Linux Server target license(10)	NUL-SC30-10-L0
NEC SigmaSystemCenter Linux Server target license(50)	NUL-SC30-50-L0
Licence pour Serveurs Virtuels. Opne license per instance	
NEC SigmaSystemCenter Virtual Server management option	NUT-SC3V-00-00

SigmaSystemCenter : MAINTENANCE AND SUPPORT

Description	Reference
SW support (renewal): SW updates + illimited email & phone support	NC

NEC SYSTEM MANAGEMENT SOLUTIONS

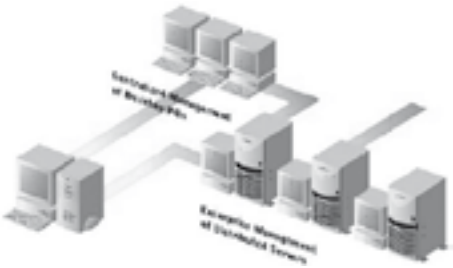
Based on its extensive knowledge of IT culture NEC has developed a comprehensive software suite to provide companies with a complete system management solution, enabling a substantial TCO reduction through an effective, unified operations management.

ESMPRO™ MANAGEMENT SUITE - OVERVIEW

The ESMPRO suite contains advanced, powerful tools to perform and optimise the full scope of IT operations - managing asset life cycle, assuring network performance, deploying operating systems and software across the organisation and easing admin tasks through its 5 plugable software modules:

- **ESMPRO ClientManager** enables centralised, automatic management of all PCs connected to the network through advanced features such as asset control (hardware & software) and configuration management, providing system administrators with impressive manageability while reducing significantly maintenance expenses.
- **ESMPRO DeploymentManager** is an easy-to-use solution to centrally and automatically deploy operating systems, corporate master images, applications, patches or bios updates on remote systems (PCs or Servers).
- **ESMPRO DeliveryManager** assures real-time software distribution and its timely implementation in LAN and WAN environments. Key functions include installation scheduling, incremental software delivery, grouped files transfer and file compression, for a much simplified software management.
- **ESMPRO FileTransfer** efficiently transfers data between systems, providing improved job management across the network. FileTransfer is easily accessible via Windows GUI, command-line script and API, enabling seamless integration with the rest of the system.
- **ESMPRO WinShare** offers administrators an effective operational tool for extended control over client PCs and streamlined support features.

Note: *ESMPRO ServerManager comes as a standard with all NEC servers, facilitating server configuration and set-up and other timesaving utilities.*



ESMPRO - KEY BENEFITS

- Significant TCO reduction
- Multi-vendor environment
- Adaptable and scalable for any network size
- Unified, facilitated IT management
- Full asset life cycle management
- Improved efficiency of support/help desk
- Complementary consulting & support services

ESMPRO MANAGEMENT SUITE

Designation	NEC References
ESMPRO Management Suite	
ESMPRO Suite 1-99 Client licenses - price per licence, 1Y support included	NUECPC0099AA
ESMPRO Suite 100-499 Client licenses- price per licence, 1Y support included	NUECPC0499AA
ESMPRO Suite 500-999 Client licenses- price per licence, 1Y support included	NUECPC0999AA
ESMPRO Suite 1000+ Client licenses- price per licence, 1Y support included	NUECPC1000AA
ESMPRO ClientManager Ver4,0	
ESMPRO CM 1-99 Client licenses- price per licence, 1Y support included	NUECMC0099AA
ESMPRO CM 100-499 Client licenses- price per licence, 1Y support included	NUECMC0499AA
ESMPRO CM 500-999 Client licenses- price per licence, 1Y support included	NUECMC0999AA
ESMPRO CM 1000+ Client licenses- price per licence, 1Y support included	NUECMC1000AA
ESMPRO DeliveryManager Ver7.2	
ESMPRO DM 1-99 Client licenses- price per licence, 1Y support included	NUEDMC0099AA
ESMPRO DM 100-499 Client licenses- price per licence, 1Y support included	NUEDMC0499AA
ESMPRO DM 500-999 Client licenses- price per licence, 1Y support included	NUEDMC0999AA
ESMPRO DM 1000+ Client licenses- price per licence, 1Y support included	NUEDMC1000AA
ESMPRO FileTransfer Ver4,0	
ESMPRO FT 1-9 licenses- price per licence, 1Y support included	NUEFTS0009AA
ESMPRO FT 10-24 licenses- price per licence, 1Y support included	NUEFTS0024AA
ESMPRO FT 25+ licenses- price per licence, 1Y support included	NUEFTS0025AA
ESMPRO WinShare Ver4.0	
ESMPRO WS 1-99 Client licenses- price per licence, 1Y support included	NUEWSC0099AA
ESMPRO WS 100-499 Client licenses- price per licence, 1Y support included	NUEWSC0499AA
ESMPRO WS 500-999 Client licenses- price per licence, 1Y support included	NUEWSC0999AA
ESMPRO WS 1000+ Client licenses- price per licence, 1Y support included	NUEWSC1000AA
ESMPRO DeploymentManager Ver3.0	
ESMPRO DPM 1-99 Client licenses- price per licence, 1Y support included	NUEDPC0099AA
ESMPRO DPM 100-499 Client licenses- price per licence, 1Y support included	NUEDPC0499AA
ESMPRO DPM 500-999 Client licenses- price per licence, 1Y support included	NUEDPC0999AA
ESMPRO DPM 1000+ Client licenses- price per licence, 1Y support included	NUEDPC1000AA
ESMPRO DPM 1-9 Server licenses- price per licence, 1Y support included	NUEDPS0009AA
ESMPRO DPM 10-24 Server licenses- price per licence, 1Y support included	NUEDPS0024AA
ESMPRO DPM 25+ Server licenses- price per licence, 1Y support included	NUEDPS0025AA
Support	
annual ESMPRO SW support: SW updates + illimited email & phone support	NUEDTS0000CA

Note: Full application and documentation included with all ESMPRO software - in English only
For extended support contract please contact your NEC sales office

To obtain more information on ESMPRO and accompanying Professional Services available to prototype, install, support or train your personnel on this NEC solution, please send your queries to services@nec-computers.com

ESMPRO is a registered Trademarks of NEC Corporation used under licence

ESMPRO DEPLOYMENT MANAGER

ESMPro DeploymentManager simplifies the process of systems deployment and updates for desktops and servers. It enables your IT team to remotely manage groups of machines on which they control and schedule a deployment scenario and policy. Deployment can be automated and therefore easily delivered across the organisation.

ESMPro DeploymentManager is part of the 5 modules of the ESMPRO Software Suite.

ESMPro DeploymentManager is a complete & easy solution :

- for massive master/OS deployments
- software distribution
- with backup & restore of disk images functionnalities
- for servers and clients PCs

Supported platforms :

- any hardware vendor
- servers & desktops
- Windows 2000, 2003, XP, Linux

Deployment operations supported :

- operating systems,
- corporate image masters,
- applications,
- hot-fixes,
- patches,
- BIOS updates,
- disk and partition images backup and restore..

- Operation system deployment
- Corporate master images deployment
- Patches and hot fix deployment
- File updates
- Central administration
- Batch office support
- Disk or partition image backup and restore
- Group definitions
- Deployment scenario and policy scheduling
- Deployment process monitoring

ESMPRO DeploymentManager for Server

Description	Reference
NEC DPM 4.1 Target Server License	NUL-DP40-00-00
NEC DPM 4.1 Target Server License (5 servers)	NUL-DP40-05-00
NEC DPM 4.1 Target Server License (20 servers)	NUL-DP40-20-00
NEC DeploymentManager Media Kit	NUT-DP40-00-00

NEC EXPRESSCLUSTER™ X 1.0

Scalable high-availability solution for business-critical applications

NEC strong engineering experience in the field of Corporate Business Continuity solutions has been applied to deliver highly advanced Express5800 IT server solutions using NEC ExpressCluster that permit simpler, more dependable large volume data-processing and seamless service provision.

NEC ExpressCluster is a scalable application that provides **high availability** solutions for both **Windows and Linux** environments, with a robust architecture and feature-set allowing for economical 2-node data-mirroring solutions up to high-performance 32-node configurations for larger scale business continuity needs.

TECHNICAL SPECIFICATIONS :

- **Supported platforms :** Windows (2000, 2003 Server & Advanced Server) and Entreprise Linux
- **Architecture :** Synchronous or asynchronous mirroring, or shared disk array
- **Flexible Configuration :** from 1 to 3 servers in mirroring mode. Up to 32 servers in shared array disk
- **Clustering modes :** Active/Active and Active/Passive
- **Certified applications :** IIS, Exchange 2003, RightFax, Oracle, SQL, mySQL, DB2 , sendmail, Samba, Tuxedo Weblogic, Websphere.

NEC EXPRESSCLUSTER SOLUTION - KEY BENEFITS :

- **Automatic fault detection :** All servers in cluster configuration constantly send heart beat signals to check servers functioning. If a server does not receive a signal from a particular server, it automatically executes a fail-over.
- **Unified and simplified management (Linux and Windows) :** Unique web-based interface. The setup and the management of heterogeneous clusters are easier and simplified.

NEC EXPRESSCLUSTER™ X 1.0

Scalable high-availability solution for business-critical applications

Description	Reference
ExpressCluster MediaKit	
ExpressCluster MediaKit	NUC000MDK02
ExpressCluster X 1.0 for Windows. Price per processor	
EXPRESSCLUSTER X 1.0 for Windows,1CPU, 1Y support included	NUCWIN00102
EXPRESSCLUSTER X 1.0 for Windows, 2CPUs, 1Y support included	NUCWIN00202
EXPRESSCLUSTER X 1.0 for Windows, 4CPUs, 1Y support included	NUCWIN00402
Options for Windows. Price per server	
EXPRESSCLUSTER Replicator for Windows, 1Y support included	NUCWINREP02
EXPRESSCLUSTER Database Agent for Windows, 1Y support included	NUCWINDBA02
EXPRESSCLUSTER Internet Server Agent for Windows, 1Y support included	NUCWINISA02
EXPRESSCLUSTER Alert Service for Windows, 1Y support included	NUCWINASE02
ExpressCluster X 1.0 for Linux. Price per processor	
EXPRESSCLUSTER X 1.0 for Linux, 1CPU, 1Y support included	NUCLIN00102
EXPRESSCLUSTER X 1.0 for Linux, 2CPUs, 1Y support included	NUCLIN00202
EXPRESSCLUSTER X 1.0 for Linux, 4CPUs, 1Y support included	NUCLIN00402
Options for Linux. Price per server	
EXPRESSCLUSTER Replicator for Linux, 1Y support included	NUCLINREP02
EXPRESSCLUSTER Database Agent for Linux, 1Y support included	NUCLINDBA02
EXPRESSCLUSTER Internet Server Agent for Linux, 1Y support included	NUCLINISA02
EXPRESSCLUSTER File Server Agent for Linux, 1Y support included	NUCLINFSA02
EXPRESSCLUSTER Application Server Agent for Linux, 1Y support included	NUCLINASA02
EXPRESSCLUSTER Alert Service for Linux, 1Y support included	NUCLINASE02
Support	
ExpressCluster 1 Year support: SW updates+10 Incidents by tel. +unlimited email support	NPXWLSW0020

For more than 4 Cpus, please contact your sales representative.

To obtain more information on ExpressCluster solution and accompanying Professional Services available to secure your IT resources, please send your queries to services@nec-computers.com

ExpressCluster is a registered trademark of NEC Corporation used under licence

DOUBLE-TAKE DISASTER RECOVERY SOLUTION

Double-Take

WINDOWS SERVER DISASTER RECOVERY. 2000, 2003, NT EMERGENCY DATA RESTORE.

Do you know the downtime cost per minute for your (virtual) Windows servers?
Need to get a Disaster Recovery Solution in place?

Double-Take is certified for Windows 2003 Standard, Enterprise and Datacenter Editions!

Double- Take is your downtime-prevention (and career) insurance policy. It's the World's Market leader in Disaster Recovery. You get real-time data protection to reduce data loss and downtime, and enhances the performance of your existing backup apps. Double-Take monitors file changes as they occur on one (or many) of your source servers, replicating them in real-time to a target server over your existing network links. Double-Take also works great with virtual servers.

Description	Reference
Double-Take® For Windows Server Premium (1 licence per server),1 year support included	RMTWSTSWPS1
Double-Take® For Windows Advanced Server Premium (1 licence per server),1 year support included	RMTWADSWPS1
Double-Take® For Windows Replication SSE (1 licence per server),1 year support included (Replication only)	RMTWRSSWPS1
Double-Take® For Windows SSE (Replication + Fail-over) (1 licence per server),1 year support included	RMTWSSSWPS1
Double-Take® for Virtual Servers (5 licenses for 5 virtual servers)	NC
Double-Take® for VMware Infrastructure (5 licenses for 5 virtual servers)	NC
Support	
Supplementary 1 year support for Windows Server	NMTWSTSWPE1
Supplementary 1 year support for Advanced Server	NMTWADSWPE1
Supplementary 1 year support for Replication SSE	NMTWRSSWPE1
Supplementary 1 year support for Windows SSE	NMTWSSSWPE1

(1) Software application and documentation available in English only
(2) Editor software support 8x5

To obtain more information on disaster recovery solutions and accompanying Professional Services available to secure your IT resources, please send your queries to services@nec-computers.com

NSI and Double Take are registered trademarks of Networks Specialists Inc.

BRIGHTSTOR ARCSERVE BACKUP

Advanced Backup & Restore for Windows, Linux and NetWare environments

BrightStor® ARCserve® Backup is a data protection solution that provides the ease-of-use small organisations expect, and the features and capabilities large enterprises demand. World-class data protection is provided for distributed servers, databases, applications and multiple clients, including Windows, Linux and NetWare environments.

Description	Reference
WINDOWS ENVIRONMENT (PRODUCT +1 YEAR CA VALUE MAINTENANCE)	
BAB R11.5 for Windows Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C200-00-00
BAB R11.5 Windows Agent Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C220-00-00
BAB R11.5 for Windows - Tape Library Option Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C201-00-00
BAB R11.5 for Windows - SAN Option Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C203-00-00
BAB R11.5 for Windows ServerLess Option Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C204-00-00
BAB R11.5 for Windows - Disaster Recovery option Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C205-00-00
BAB R11.5 for Windows - Image Option Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C206-00-00
BAB R11.5-forWindows NDMP-NAS-Option (Product + 1 Year CA Value Maintenance)	NUT-C207-00-00
BAB R11.5 for Windows - Tape RAID Option Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C208-00-00
BAB R11.5 Agent for Open File on Windows Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C210-00-00
BAB R11.5 Microsoft Exchange Agent for Windows Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C212-00-00
BAB R11.5 Lotus/Domino Agent on Windows Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C213-00-00
BAB R11.5 Oracle Agent for Windows Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C215-00-00
BAB R11.5 Microsoft SQLServer Agent for Windows Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C216-00-00
WINDOWS SBS ENVIRONMENT (PRODUCT +1 YEAR CA VALUE MAINTENANCE)	
BAB R11.5 for Windows SBS, Standard Edition Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C250-00-00
BAB R11.5 Windows SBS Premium Edition Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C251-00-00
LINUX ENVIRONMENT (PRODUCT +1 YEAR CA VALUE MAINTENANCE)	
BAB R11.5 for Linux Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C240-00-00
BAB R11.5 Linux Agent Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C221-00-00
BAB R11.5 MySQL Agent for Linux Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C243-00-00
BAB R11.5 Oracle Agent for Linux Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C242-00-00
BAB R11.5 for Linux- Tape Library Option Media Kit (Product + 1 Year CA Value Maintenance)	NUT-C241-00-00

SYMANTEC BACKUP EXEC™

Symantec Backup Exec 12 for Windows Servers is the gold standard in Windows data recovery, providing cost-effective, high-performance, and certified disk-to-disk-to-tape backup and recovery—including continuous data protection for Microsoft Exchange, SQL, file servers, and workstations. High-performance agents and options provide fast, flexible, granular protection and recovery, and scalable

Symantec Backup Exec v12 for Windows

Description	Reference
Media Kit	
Symantec Backup Exec v12 for Windows Server. Media Kit, French	NMGE1WMDA02
LICENSES & SUPPORT	
Windows environment. Private sector conditions	
Symantec Backup Exec v12 for Windows Server License	NMGE1WLICPP
Symantec Backup Exec v12 for Windows Server 1 year support	NMGE1WS1CPP
Symantec Backup Exec v12 Agent License	NMGE1WLISAP
Symantec Backup Exec v12 Agent 1 year support	NMGE1WS1SAP
Windows environment. Public sector conditions	
Symantec Backup Exec v12 for Windows Server License	NMGE1WLICPG
Symantec Backup Exec v12 for Windows Server 1 year support	NMGE1WS1CPG
Symantec Backup Exec v12 Agent License	NMGE1WLISAG
Symantec Backup Exec v12 Agent 1 year support	NMGE1WS1SAG
Windows environment. Education conditions	
Symantec Backup Exec v12 for Windows Server License	NMEE1WLICPE
Symantec Backup Exec v12 for Windows Server 1 year support	NMEE1WS1CPE
Symantec Backup Exec v12 Agent License	NMEE1WLISAE
Symantec Backup Exec v12 Agent 1 year support	NMEE1WS1SAE
Windows SBS environment :	Contact us

Many Symantec Backup Exec are available at NEC. Please contact your sales representative.

For upgrades & competitive upgrades, contact your sales representative.

THE ULTRACARE ENTERPRISE NEC OFFER

THE ENTERPRISE ULTRACARE NEC OFFER

THE ULTRACARE ENTERPRISE NEC OFFER INCLUDES

High Added Value services, maintenance services, integration services, managed services & consulting services which are declined in 3 services levels **BASIC, ADVANTAGE ET PREMIUM**.
They are dedicated to make the Customer infrastructure safe.

A SIMPLIFIED, DICTINCT AND VISUALLY IDENTIFIABLE OFFER

- **MINIMUM** service level not for critical applications
- **IDEAL** service level for standard activity providing the optimal availability of applications
- **HIGH** service level. The «TOP» of NEC for very critical applications

THE ENTERPRISE ULTRACARE NEC OFFER

The UltraCare maintenance Services are dedicated to Enterprise Solutions. They answer to current issues of productivity increasing and costs reduction, avoiding expansive costs of out of warranty repair.

SERVICE CONTRACT

WHY SUBSCRIBE A CONTRACT SERVICE?

- To increase your Enterprise Solution lifetime
- To optimize maintenance expenses
- To avoid expensive interventions out of warranty

OUR OBJECTIVE: TO SATISFY YOU!

- Better Business continuity by fast interventions
- TCO reduction
- Return on investment lengthening

EXTENSION ON INSTALLED BASE
Send us your requests for quotation before the end of the contract!

ULTRACARE ONLINE : BE IN CONTROL OF YOUR REGISTRATIONS!

- On line services contracts registration = NO RISK OF LOST COUPON
- Donwload UltraCare certificates = IMMEDIATE POSSIBLE PRINTING

EFFICIENCY - SIMPLICITY - SAFETY

FOR MAINTENANCE, THINK ABOUT ENTERPRISE ULTRACARE SERVICES!

THE ENTERPRISE ULTRACARE NEC OFFER

Maintenance services : a complete offer with High Added Value for an optimal Solution

SUMMARY CHART

The Enterprise UltraCare Offer	BUSINESS SOLUTIONS								
	Business Continuity			Virtualization			Visual Computing (workstations)		
	☑	☑	☑	☑	☑	☑	☑	☑	☑
INTERVENTION									
→ Standard intervention				✔ (D+1)	✔ (H+4)	✔ (H+4)	✔ (D+1)	✔ (D+1)	✔ (D+1)
→ Emergency Intervention Service			✔ (D+0)						
REPAIR TIME COMITMENT (RTC)						✔ (6H)		✔ (48H 5/7)	✔ (24H 7/7)
NEC SUPPORT									
→ Phone & Email Support		✔ (8x5)	✔ (24x7)	✔ (8x5)	✔ (8x5)	✔ (24x7)	✔	✔ (8x5)	✔ (24x7)
→ Hardware & Software Support		✔	✔	✔	✔	✔	✔	✔	✔
→ NEC support Web site Access	✔	✔	✔	✔	✔	✔	✔	✔	✔
→ NEC Level 2 Support web site Access		✔	✔						
→ Direct Access level 2 support			✔			✔			✔
→ Management Priority Escalation			✔						
REMOTE SERVICE MANAGEMENT									
→ Remote alert 7/7 - 24x7		✔	✔		✔	✔			✔
→ Proactive remote monitoring		✔	✔			✔			✔
→ Proactive remote diagnostique		✔	✔			✔			✔
INTERVENTION WITH CRU (replacement unit)	✔ (D+10R)	✔ (D+2)	✔ (D+1)	✔ (D+2)	✔ (D+2)	✔ (D+1)			

ADVANTAGE et PREMIUM
le niveau de service peut varier selon le pays

SERVICES LEVELS
D+0 : on site intervention the same day after the qualification of the call
D+1 : on site intervention the day after the qualification de l'appel
D+2 : on site intervention within 2 opening days after the qualification of the call
D+10R : repair with CRU sending within 10 opening days after the qualification of the call
H+4 : on site intervention to provide maintenance service within 4H after the qualification of the call
RTC 6H : Repair Time Commitment within 6H after the qualification of the Call
RTC 48H 5/7: Repair Time Commitment under 48H after the qualification of the call 5 days/7 during normal working hours (9am-6pm)
RTC 24H 7/7: Repair Time Commitment under 24H after the qualification of the call 24/24 - permanent support
OPENING HOURS
24x7 : permanent support - 8x5 : available support 5days/7 during normal working hours (9am-6pm)

PROFESSIONAL SERVICES & TRAINING

MAINTENANCE SERVICES

dedicated Servers & Storage

TAKE SUPPORT EASY WITH THE ULTRACARE SERVICES

DEDICATED SERVERS & STORAGE!

MODELS	CATEGORY
SI1520 - SI1720 - SI1120R1	CAT1
120EH2 - 120Ei - 120RH1	CAT2
120LJ - 120RJ2 - ST1220	CAT3
140RF4 - R140a-4 - D1-10	CAT4
D3-10 - D8-10	CAT 5
120BB-6 - 140BA10	CAT BL

UltraCare SERVICES CONTRACTS (warranty extension) : 3 YEARS FROM 1 YEAR

only available for servers and storages with **standard warranty 1 year**. Services contracts can be ordered only during the first year of warranty.

Service Level	Range	Reference
Extension to 3 Years On site D+1 (1)	CAT 1	RWYG3SA010A
	CAT 2	RWYG3SC010A
Extension to 3 Years On site D+1, Repair Time Commitment (1) (2)	CAT 1	RWYG3SA011A

UltraCare SERVICES CONTRACTS (warranty extension) : 3 YEARS FROM 3 YEARS

only available for servers and storages **with standard warranty 3 years**. Services contracts can be ordered only during the first year of warranty.

Service Level	Range	Reference
Extension to 3 Years On site D+1, Repair Time Commitment (1) (2)	CAT 1	RWYG3SB011A
Extension to 3 Years On site D+1, 4H (8x5) Intervention (1)	CAT 1	RWYG3SB060A
	CAT 2	RWYG3SD060A
	CAT 3	RWYG3SF060A
	CAT 4	RWYG3SH060A
	CAT 5	NWYG3SL060A
	CAT BL	Contact US or Refer to M@gic configurator
Extension to 3 Years On site D+1, 4H (24x7) Intervention (1)	CAT 1	RWYG3SB760A
	CAT 2	RWYG3SD760A
	CAT 3	RWYG3SF760A
	CAT 4	RWYG3SH760A
	CAT 5	NWYG3SL760A
	CAT BL	Contact US or Refer to M@gic configurator
Extension to 3 Years On site D+1, 6H Repair Time Commitment (24x7) (1) (2)	ALL	Contact US or Refer to M@gic configurator

UltraCare SERVICES CONTRACTS (warranty extension) : 4 YEARS FROM 3 YEARS

only available for servers and storages **with standard warranty 3 years**. Services contracts can be ordered only during the first year of warranty.

Service Level	Range	Reference
Extension to 4 Years On site D+1 (1)	CAT 1	RWYG4SB010A
	CAT 2	RWYG4SD010A
	CAT 3	RWYG4SF010A
	CAT 4	RWYG4SH010A
	CAT 5	NWYG4SL010A
	CAT BL	Contact US or Refer to M@gic configurator
Extension to 4 Years On site D+1, 4H (8x5) Intervention (1)	ALL	Contact US or Refer to M@gic configurator
Extension to 4 Years On site D+1, 4H (24x7) Intervention (1)	ALL	Contact US or Refer to M@gic configurator
Extension to 4 Years On site D+1, 6H Repair Time Commitment (24x7) (1) (2)	ALL	Contact US or Refer to M@gic configurator

UltraCare SERVICES CONTRACTS (warranty extension) : 5 YEARS FROM 3 YEARS

only available for servers and storages **with standard warranty 3 years**. Services contracts can be ordered only during the first year of warranty.

Service Level	Range	Reference
Extension to 5 Years On site D+1 (1)	CAT 1	RWYG5SB010A
	CAT 2	RWYG5SD010A
	CAT 3	RWYG5SF010A
	CAT 4	RWYG5SH010A
	CAT 5	NWYG5SL010A
	CAT BL	Contact US or Refer to M@gic configurator
Extension to 5 Years On site D+1, 4H (8x5) Intervention (1)	ALL	Contact US or Refer to M@gic configurator
Extension to 5 Years On site D+1, 4H (24x7) Intervention (1)	ALL	Contact US or Refer to M@gic configurator
Extension to 5 Years On site D+1, 6H Repair Time Commitment (24x7) (1) (2)	ALL	Contact US or Refer to M@gic configurator

(1) Monitor warranty : 3 years on site swap

(2) The following items are not included in the RTC service: monitors, keyboard, mice, accessories, racks, peripherals or any other items which are not built into a Server, Storage or Workstation as an internal component by NEC at the time of purchase.

PROFESSIONAL SERVICES
SERVERS, STORAGE & WORKSTATIONS

SERVERS AND STORAGE SERVICES

Description	Type	Reference
DT mass deployment - Master conception and validation, deployment planning, installation and test.	Project	NPGENIN0300
Delegation day of a technician resource Implementation and *standard parameter settings*	Project	NPTACxxL1xxx
Delegation day of an engineer resource *Expertise & Consulting*	Project	NPTACxxL2xxx
Server Basic in Rack installation Server unpacking Connection OS installation KVM connection		NPGENIN0500

EXPERTISE & TECHNICAL SUPPORT

Description	Type	Référence
NEC SAN S-Series Installation Installation, & Configuration, operational Tests, skills transfer	Project	NPSTOIN0100
NEC SAN D-Series Installation Installation, & Configuration, operational Tests, skills transfer		NPSTOIN0300
DEU Installation Installation, annexe connections configuration and operational tests	Project	NPSTOIN0200
IT System migration technical assistance Assessment phase, Specifications, Installation, Data migration & Tests.	Project	NPINB07xxxxx
Backup software solution architecture design Existing architecture review, Software architecture design, Backup Policy specifications.	Project	NPSECAD0200
Backup software solution Installation. Installation, Backup Policy Configuration and Tests.	Project	NPSECIN0500
Systems and networks security of the company **Preliminary study, specifications and definition of the security policy, c**onfiguration and operational tests.	Project	NPTAAxxxx11xx

TRAINING FOR USERS AND ADMINISTRATORS

Description	Type	Référence
Training on the implementation and administration of a SAN S-Series solution (2 days) Generalities, theoretical and practical courses on solution administration.	Servers	NPSTOTR0100
Training on Express5800 servers range (2 days) Generalities, theoretical and practical courses on servers administration and maintenance	Servers	NPTRA1301xxx
Training to ESMPRO Server Manager administration tools. Generalities, theoretical and practical courses on servers administration	Servers	NPTRA1401xx

For SERVERS Express5800 and STORAGES

For any demand concerning the remote supervision of NEC infrastructures, please contact the NEC professional services for a personalized study

DIRECT ACCESS TO COE (project mode)

Priority access to support 2nd level for NEC Express5800 servers and Nec Storage. For NEC materiels and software delivered in standard.

Annual contract

Priority access via mail or phone

Available from Monday until Friday 9H - 17H

Interlocutors mentionned at the Customer

Certified training available on NEC catalogue (separated prestation)

Language : French and English

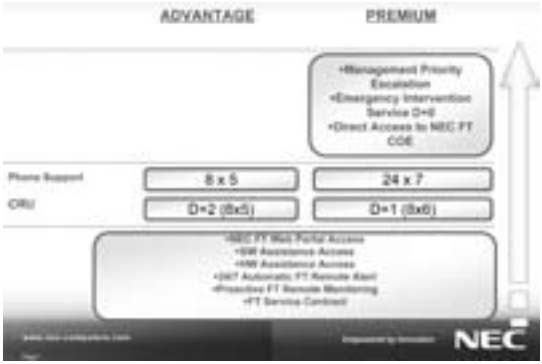
For any demand concerning the direct access to the NEC COE, please contact the NEC professional services for a personalized study

MAINTENANCE SERVICES

CONTRACTS SERVICES
HIGH AVAILABILITY SOLUTION

ULTRACARE FT SERVICES :
OPTIMAL BUSINESS CONTINUITY GUARANTEED!

Models	Category
320FD-MR/320FD-LR	CAT 6 / FT (CRU service model)



UltraCare SERVICES CONTRACTS : 1 YEAR FROM 1 YEAR BASIC**

Only available for Fault Tolerant **with standard warranty 1 year BASIC****. Services contracts to be ordered during the purchase of the Fault Tolerant.

SERVICE LEVEL	Range	Reference
1 year UltraCare FT service ADVANTAGE	CAT 6 / FT	NWYG1SM01CA
1 year UltraCare FT service PREMIUM	CAT 6 / FT	NWYG1SM71CA

UltraCare SERVICES CONTRACTS : 3 YEARS FROM 1 YEAR BASIC**

Only available for Fault Tolerant **with standard warranty 1 year BASIC****.Services contracts to be ordered during the purchase of the Fault Tolerant.

SERVICE LEVEL	Range	Reference
3 years UltraCare FT service ADVANTAGE	CAT 6 / FT	NWYG3SM01CA
3 years UltraCare FT service PREMIUM	CAT 6 / FT	NWYG3SM71CA

UltraCare SERVICES CONTRACTS : 5 YEARS FROM 1 YEAR BASIC**

Only available for Fault Tolerant **with standard warranty 1 year BASIC****.Services contracts to be ordered during the purchase of the Fault Tolerant.

SERVICE LEVEL	Range	Reference
5 years UltraCare FT service ADVANTAGE	CAT 6 / FT	NWYG5SM01CA
5 years UltraCare FT service PREMIUM	CAT 6 / FT	NWYG5SM71CA

*Customer replaceable unit

**1 year CRU Carry in D+10

PROFESSIONAL SERVICES

INTEGRATED SERVICES
dedicated High Availabililty Solution

INTEGRATION SERVICES :

INSTALLATION SERVICE

BASIC Installation Service	NPYFTOINPRxx (1)
FT on site implementation	
Remote Management tools installation	
Account opening and activation for the remote alert	
Service Contract Registration	
Code creation for Expertise Center access for 'Premium'	

ADVANTAGE Installation Service	NPYFTOINADxx (1)
Advanced presentation FT concept	
Skill transfer on management tools and supervision	
FT integration on customer area	
Basic FT configuration	

Active Upgrade Function (2)	NPYFTOINAUxx (1)
Advanced presentation of 'active upgrade' function	
Basic functionality Demonstration	
Implementation in customer environment	
Skill transfer and collaborative script realization	

(2) Customer has to purchase active upgrade license with the FT

TRAINING SERVICE

BASIC Training Service	
Implementation & Administration in Windows environment only	NPYFTOTR010

ADVANTAGE Training Service	
Implementation & Administration in Windows + Linux environment	NPYFTOTR110

NEC Computers suggests others professional services as managed and consulting services . Please contact NEC professional services for a personalized study.

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MAINTENANCE SERVICES

dedicated BUSINESS-IN-A-BOX SOLUTION (FlexPower)

ULTRACARE SERVICES DEDICATED FLEXPOWER :

THE VALUABLE ADD-ON FOR AN OPTIIMAL SOLUTION

Models	Category
FlexPower	CAT 7B/Flex

BASIC	Phone support **8x5 - 5/7**, on site intervention **D+1**, modules delivery CRU*
ADVANTAGE	Phone support **8x5 - 5/7**, on site intervention **H+4**, modules delivery CRU*, remote alert
PREMIUM	Phone support **24h/24 - 7d/7**, **remote monitoring with proactive maintenance 24/24**, on site intervention **RTC 6H**, direct access support level 2

UltraCare SERVICES CONTRACTS : 3 YEARS FROM 1 YEAR BASIC (on site)

Only available for Flexpower **with standard warranty 1 year BASIC (on site)**. Services contracts to be ordered during the purchase of the Flexpower

SERVICE LEVEL	Range	Reference
3 years UltraCare FlexPower service BASIC	CAT 7B/Flex	NWYG3SS010A

UltraCare SERVICES CONTRACTS : 3 YEARS FROM 3 YEARS BASIC (on site)

Only available for Flexpower **with standard warranty 3 years BASIC (on site).** Services contracts to be ordered during the purchase of the Flexpower

SERVICE LEVEL	Range	Reference
3 years UltraCare FlexPower service ADVANTAGE	CAT 7B/Flex	NWYG3ST060A
3 years UltraCare FlexPower service PREMIUM	CAT 7B/Flex	NWYG3ST781A

UltraCare SERVICES CONTRACTS : 5 YEARS FROM 3 YEARS BASIC (on site)

SERVICE LEVEL	Range	Reference
5 years UltraCare FlexPower service BASIC	CAT 7B/Flex	NWYG5ST010A
5 years UltraCare FlexPower service ADVANTAGE	CAT 7B/Flex	NWYG5ST060A
5 years UltraCare FlexPower service PREMIUM	CAT 7B/Flex	NWYG5ST781A

*Customer replaceable unit

**Availability end 2008/beginning 2009

MAINTENANCE SERVICES
dedicated VIRTUALISATION SOLUTION

ULTRACARE SERVICES WITH YOUR VIRTUALISATION SOLUTION
FOR AN OPTIMAL SERVICE LEVEL!

Models	Range
Management server + Virtualisation server + VPCC DX10-DEU	CAT 3 - SV
VPCC DX10-DEU	CAT 3 - ST
FT Management server	CAT 6
SAN (D3-10)	CAT 5

BASIC Phone support & Email **8x5**, software & hardware, on site intervention **D+1**

ADVANTAGE Phone support & Email **8x5**, software & hardware support, on site intervention **H+4** , **remote alerts**

PREMIUM Phone support & Email **24x7**, software & hardware support, on site intervention **RTC 6H** , remote alerts, **proactive monitoring, direct access support level 2**

Service	Range	Reference
UltraCare SERVICES CONTRACTS : 3 YEARS FROM 1 YEAR BASIC (on site)		
Only available for VPCC with **standard warranty 1 year BASIC (on site)**. Services contracts to be ordered during the purchase of the VPCC		
3 years UltraCare VPCC service BASIC	VPCC - CAT3	NWYG3SV010A
3 years UltraCare VPCC service ADVANTAGE	VPCC - CAT3	NWYG3SV060A
3 years UltraCare VPCC service PREMIUM	VPCC - CAT3	NWYG3SV781A
3 years UltraCare VPCC service BASIC	VPCC - CAT6	NWYG3SW0APA
3 years UltraCare VPCC service ADVANTAGE	VPCC - CAT6	NWYG3SW01CA
3 years UltraCare VPCC service PREMIUM	VPCC - CAT6	NWYG3SW71CA
UltraCare SERVICES CONTRACTS : 5 YEARS FROM 1 YEAR BASIC (on site)		
Only available for VPCC with **standard warranty 1 year BASIC (on site)**. Services contracts to be ordered during the purchase of the VPCC		
5 years UltraCare VPCC service BASIC	VPCC - CAT3	NWYG5SV010A
5 years UltraCare VPCC service ADVANTAGE	VPCC - CAT3	NWYG5SV060A
5 years UltraCare VPCC service PREMIUM	VPCC - CAT3	NWYG5SV781A
5 years UltraCare VPCC service BASIC	VPCC - CAT6	NWYG5SW0APA
5 years UltraCare VPCC service ADVANTAGE	VPCC - CAT6	NWYG5SW01CA
5 years UltraCare VPCC service PREMIUM	VPCC - CAT6	NWYG5SW71CA
UltraCare SERVICES CONTRACTS : 3 YEARS FROM 1 YEAR BASIC (on site)		
Only available for VPCC with **standard warranty 1 year BASIC (on site)**. Services contracts to be ordered during the purchase of the VPCC		
3 years UltraCare VPCC service BASIC	VPCC - CAT5	NWBG3SG010A
3 years UltraCare VPCC service ADVANTAGE	VPCC - CAT5	NWBG3SG060A
3 years UltraCare VPCC service PREMIUM	VPCC - CAT5	NWBG3SG781A
UltraCare SERVICES CONTRACTS : 5 YEARS FROM 1 YEAR BASIC (on site)		
5 years UltraCare VPCC service BASIC	VPCC - CAT5	NWBG5SG010A
5 years UltraCare VPCC service ADVANTAGE	VPCC - CAT5	NWBG5SG060A
5 years UltraCare VPCC service PREMIUM	VPCC - CAT5	NWBG5SG781A
UltraCare SERVICES CONTRACTS : 3 YEARS FROM 1 YEAR BASIC (on site)		
Only available for VPCC with **standard warranty 1 year BASIC (on site)**. Services contracts to be ordered during the purchase of the VPCC		
3 years UltraCare VPCC service BASIC	VPCC - CAT3/ST	NWBG3SE010A
3 years UltraCare VPCC service ADVANTAGE	VPCC - CAT3/ST	NWBG3SE060A
3 years UltraCare VPCC service PREMIUM	VPCC - CAT3/ST	NWBG3SE781A
UltraCare SERVICES CONTRACTS : 5 YEARS FROM 1 YEAR BASIC (on site)		
5 years UltraCare VPCC service BASIC	VPCC - CAT3/ST	NWBG5SE010A
5 years UltraCare VPCC service ADVANTAGE	VPCC - CAT3/ST	NWBG5SE060A
5 years UltraCare VPCC service PREMIUM	VPCC - CAT3/ST	NWBG5SE781A

PROFESSIONAL SERVICES

INTEGRATED SERVICES
dedicated Virtualisation Solution

INTEGRATION SERVICES :

INSTALLATION SERVICE

BASIC Installation Service Software installation	NPYVPCINBASxx (1)
ADVANTAGE Installation Service Software installation + skills transfer	NPYVPCINADVxx (1)
PREMIUM Installation Service Running commitment + software Installation + skills transfer + 1 year of follow up	NPYVPCINPRExx (1)

MIGRATION SERVICE — **Consult us**

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MAINTENANCE SERVICES

dedicated Visual Computing Solution
(workstations)

ULTRACARE SERVICES ASSOCIATED TO YOUR WORKSTATION :

MODÈLES	CATÉGORIE
WA1320 - WA1330	CAT SE
WI1520 - WI1530	CAT 1
WA2510 - WA2520	CAT 2

BASIC Phone & Email support 8x5, software and hardware support, on site intervention D+1

ADVANTAGE Phone & Email support 8x5, software & hardware support, Repair Time Commitment (RTC) under 48H 5/7

PREMIUM Phone & Email support 24x7, software & hardware support, Repair Time Commitment (RTC) under 24H 7/7

ULTRACARE SERVICES CONTRACTS : 3 YEARS FROM 3 YEARS BASIC (ON SITE)

Only available for workstations with a **3 years standard warranty BASIC (on site)**. Services contracts to be ordered during the purchase of the NEC workstation.

SERVICE LEVEL	Range	Reference
3 years UltraCare Workstation ADVANTAGE service	CAT 1/SE	NWWG3SB012A
3 years UltraCare Workstation PREMIUM service	CAT 1/SE	NWWG3SB711A
3 years UltraCare Workstation ADVANTAGE service	CAT 2	NWWG3SD012A
3 years UltraCare Workstation PREMIUM service	CAT 2	NWWG3SD711A

FACTORY INTEGRATION SERVICES

All request must be validated by a
Services & Solutions consultant

Factory Integration Services

Description	Reference	Notes
SOFTWARE INTEGRATION		
Duplication - Cloning of customer image	NESWMSW000010	
CMOS image Duplication and/or BIOS Freeze	NESWMSW000020	
Client Specific Hard Disk Drive / RAID partitioning request	NESWMSW000040	
CD-recovery containing Customer software - dropped in system package	NESWMS000060	
SYSTEM ASSET SERVICES		
B&W Chassis Asset tag containing Customer specific Static/Dynamic information	NESWMAT000010	
Customized NEC System Asset Report containing Customer specific Static/Dynamic information	NEGWMAR000020	
Laser Etching*	NESWLHW000040	
Stop Track LBL with cust info	NESWLHW000050	
HARDWARE INTEGRATION		
Customization of NEC Standard Hardware Settings	NESWMH000010	
Integration & Settings of Non-NEC Hardware in system chassis	NESWMH000020	
Integration & Settings of Non-NEC Hardware dropped in system package	NESWMH000030	
*Service available for all following models : WA1320, WI1520, WA2510, SI1520		

FACTORY INTEGRATION SERVICES In RACK

Description	Reference	Notes
Rack Integration		
Partial Integration Rack (16U, 42U)	NERWLIN0000F1	
Partial Rack Frame Consolidation fee ONLY for 16U, including project management, fillers & PDUs integration, unique Master-Code design		
COMPLETE Integration Rack 16U	NERWLIN0000F5	
Full Rack Frame Consolidation fee ONLY for 16U, including project management, fillers & PDUs integration, unique Master-Code design		
COMPLETE Integration Rack 42 U	NERWLIN0000F6	
Full Rack Frame Consolidation fee ONLY for 42U, including project management, fillers & PDUs integration, unique Master-Code design		
Components Integration		
One server Tray (sliding or fixed tray) Integration (for all the EXPRESS5800 servers)	NERWLIN0000T1	
including Tray positioning at agreed altitude, cable arm positioning , secured fixing asssembly for transport		
One Storage System-Tray (sliding or fixed tray) or DEU integration, including Tray positioning, cable arms positioning, secured fixing assembly for transport	NERWLIN0000T2	
One per storage integrated		
Library Tray integration	NERWLIN0000T3	
One per Library integrated		
One UPS System Integration , including Tray positioning, secured fixing assembly transport (3000VA and 5000VA, are supported)	NERWLIN0000T4	
One per UPS to be integrated - including optional wiring serial/USB		
One keyboard/Video/Mouse (KVM) Switch Integration, including KVM cables Bracing	NERWLIN0000T5	
One per KVM integrated		
One CRT Tray Integration or one 2U Keyboard Tray Consolidation	NERWLIN0000T6	
One per Monitor CRT tray and one per KB/Mouse integrated		
One Power Secure Master-PDU Integration for InRACK OR Latch Power cable kit	NERWLIN0000T7	
UnOne par MPDU integrated		
One 2U LCD Monitor Tray Integration	NERWLIN0000T8	
One per monitor integrated		
One Fault Tolerant or Blade Server Tray Integration	NERWLIN0000T9	
HM BLADE INTEGRATION-PACKING	NERWLIN0000T11	**NC**

FACTORY INTEGRATION SERVICES

All request must be validated
by a Services & Solutions consultant

Description	Reference	Notes
Networks Components Intergration		
One FC Switch integration, including FC cables bracing One per Switch/Hub Fibre-Channel integrated	NERWLIN0000N1	
Switch LAN Ethernet Integration One par Switch LAN Ethernet integrated	NERWLIN0000N2	
Hub LAN Ethernet Integration One per Hub LAN Ethernet integrated	NERWLIN0000N3	
One FC-AL Cable Bracing, including one cable braced and identified at both ends, connected from FC-AL Hub/Switch to an FC-AL system (Server, Storage) One per FC-AL cable Bracing	NERWLIN0000N4	
One Optimized length Internal LAN RJ-45 Cable Bracing, including one cable braced and identified at both ends, connected from Hub/Switch to a manageable system (Server, Storage, other)	NERWLIN0000N5	
LAN RJ45 (Cluster) cable integration One per cable LAN RJ45	NERWLIN0000N6	

FACTORY INTEGRATION SERVICES
In RACK

Obligatory Rack service		
Description	**Reference**	**Notes**
Partial Rack integration NEC rack Packaging- Partial integration	NERWLIN000F10*	
Full rack integration Nec Rack Packaging - Full integration	NERWLIN000F20*	
Shipping door to door for rack integrated A service of transport adapted and obligatory for NEC rack integrated	NERWLIN000F30*	

** This Reference is corresponding to Rack Integration + Components Integration + Networks Components Integration (cf. last page). It is the reference that have to be used to register an order.*

FACTORY INTEGRATION SERVICES
In RACK

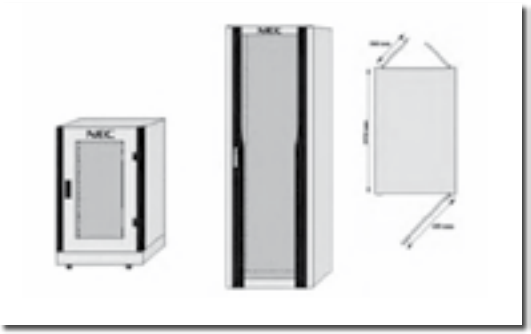
Factory Integration Services

Description	Reference	Notes
SOFTWARE INTEGRATION		
Duplication - Cloning of customer image	NESWMSW000010	
CMOS image Duplication and/or BIOS Freeze	NESWMSW000020	
Client Specific Hard Disk Drive / RAID partitioning request	NESWMSW000040	
CD-recovery containing Customer software - dropped in system package	NESWMS000060	
SYSTEM ASSET SERVICES		
B&W Chassis Asset tag containing Customer specific Static/Dynamic information	NESWMAT000010	

"InRack Solution"

A **CUSTOMIZED OFFER**
for an **OPTIMAL SOLUTION** for

- **RATIONALIZATION**
- **SIMPLIFICATION**
- **AND THE EVOLUTION OF THE CLIENT INFRASTRUCTURE**



NEC STANDARD WARRANTY

STANDARD WARRANTY
ENTREPRISE SOLUTIONS

PRODUCTS FAMILY	VISUAL COMPUTING (WORKSTATION)	SERVERS		STORAGES	BLADE	FLEXPOWER	VIRTUALISATION (VPCC)		HIGH AVAILABILITY (FT)	RACK INTEGRATION SOLUTION
STANDARD WARRANTY - ENTREPRISE SOLUTIONS	WA1xxx - WA2xxx - WI1xxx	SI1x20 - SI1120R1 - 120EH2 - 120Ei - 120RH1 - 120LJ - 120RJ2	140RF4 - R140a-4	DX-10 - ST1220	Blade 2W / 120BB6 Blade 4W / 140BA10		Management Server & Virtualization server	VPCC Softwares	320FD	Inrack full NEC integration
1 year BASIC on Site D+1 (1)						X	X			
3 years BASIC on Site D+1 (1)	X					X				
1 year on site intervention D+1 (1)		X								
3 years on site intervention D+1 (1)			X	X	X					
1 year or 3 years with swap or return to base (2)										X
Software updates, 10 phone supports, unlimited email support (3)								X		
1 year BASIC CRU exchange D+10									X	

(1) national coverage.

(2) standard warranty is 1 year or 3 years swap (sending and return are the responsability of the manufacturer) or 1 year or 3 years return to base (sending is the responsability of the customer/return is the responsability of the manufacturer) according to the accessory concerned.

(3) coverage of your choice 1 year or 3 years